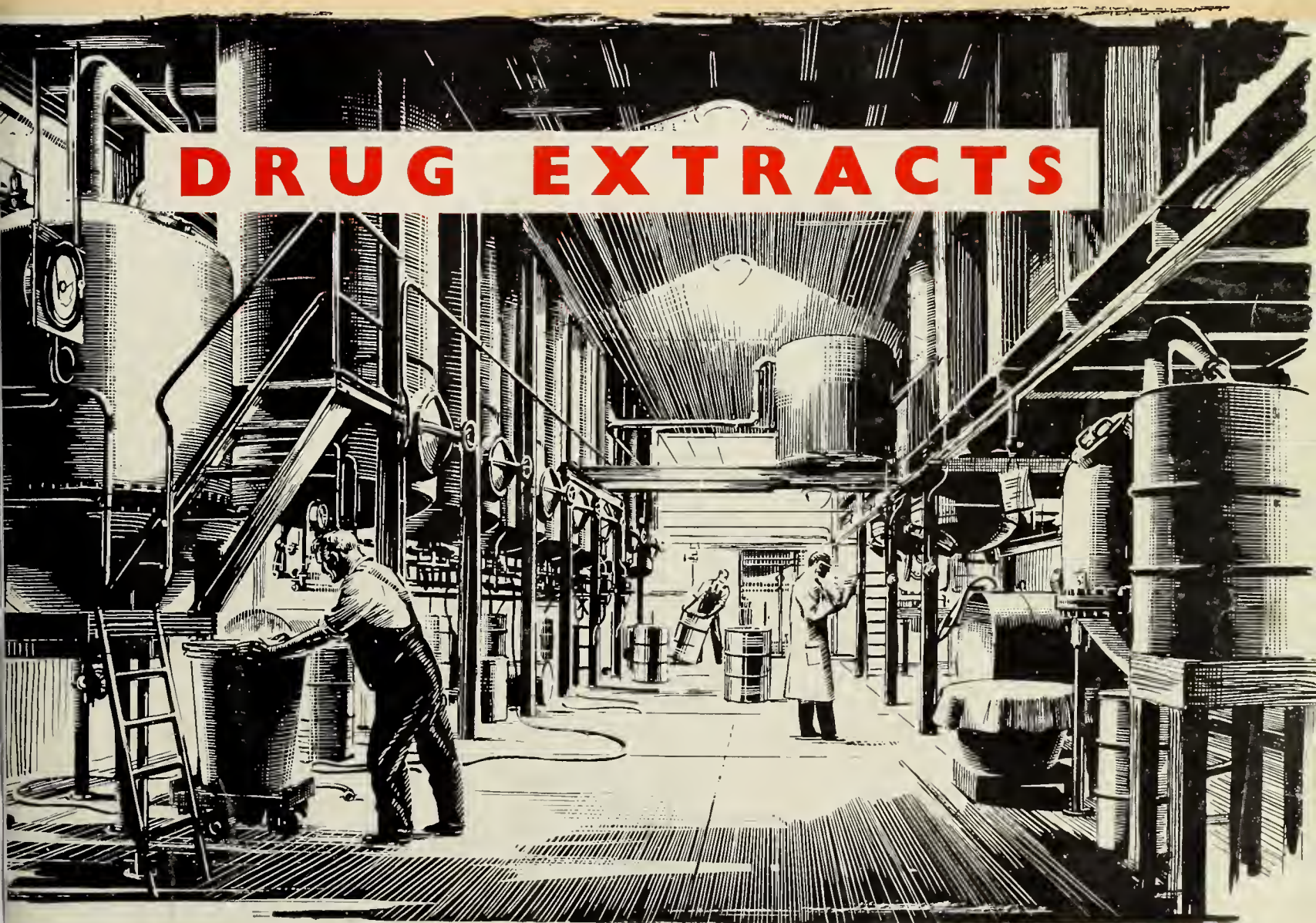


# The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JULY 19 1958

## DRUG EXTRACTS



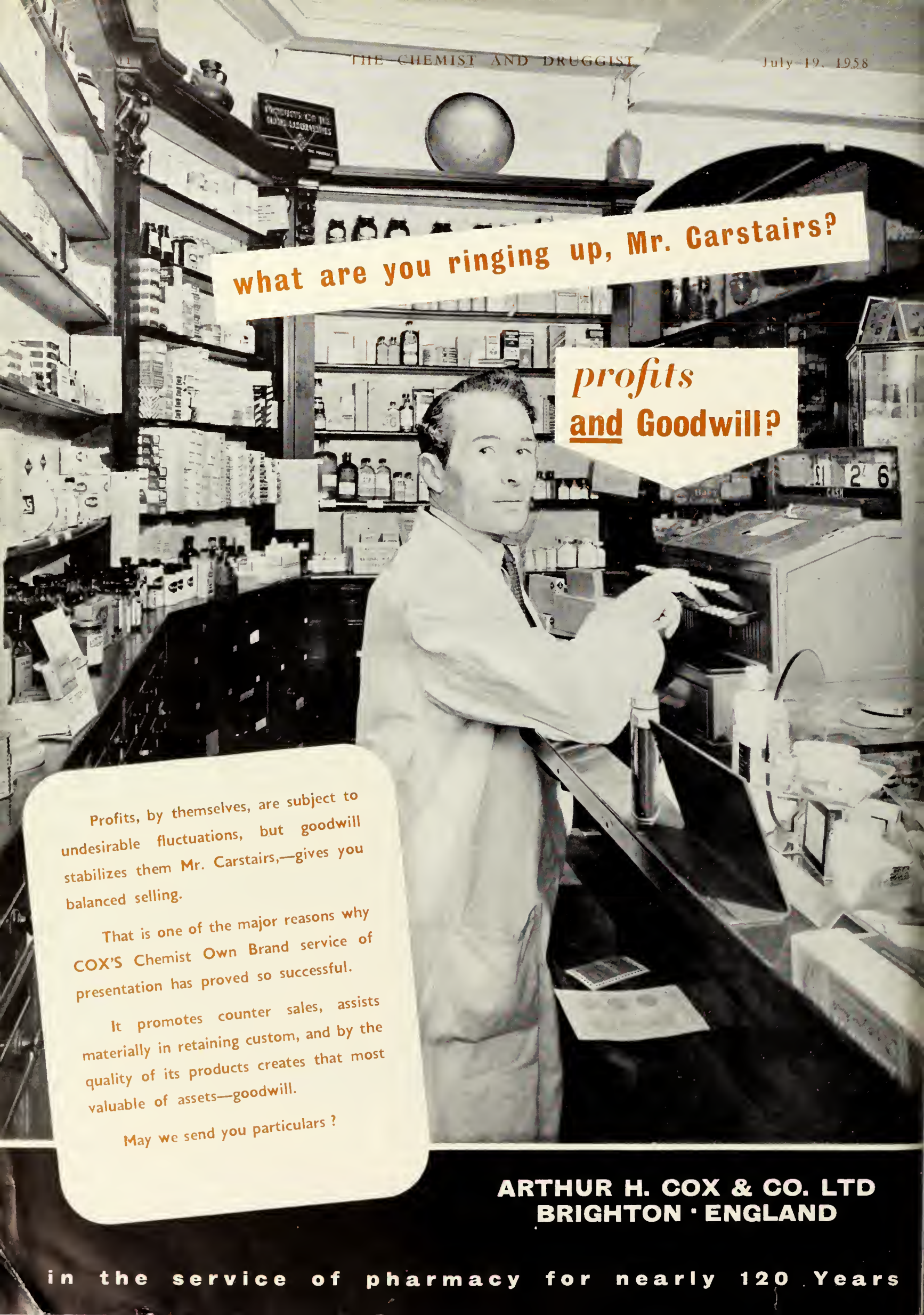
StaffordAllens offer the longest experience in the preparation of fine medicinal extracts. Our high vacuum concentration process ensures full therapeutic activity. We manufacture liquid, granulated, powdered and standardized extracts; also concentrated extracts for the preparation of tinctures, infusions, liquid extracts, decoctions, confections, etc., etc.

May we quote you for your requirements?

**STAFFORD ALLEN & SONS LIMITED**  
MARF ROAD, LONDON, N.1 Telephone: CLerkenwell 1000



TAS/A



what are you ringing up, Mr. Carstairs?

*profits*  
and Goodwill?

Profits, by themselves, are subject to undesirable fluctuations, but goodwill stabilizes them. Mr. Carstairs,—gives you balanced selling.

That is one of the major reasons why COX'S Chemist Own Brand service of presentation has proved so successful.

It promotes counter sales, assists materially in retaining custom, and by the quality of its products creates that most valuable of assets—goodwill.

May we send you particulars?

**ARTHUR H. COX & CO. LTD**  
**BRIGHTON · ENGLAND**

**in the service of pharmacy for nearly 120 Years**

*If you want them to beat a path  
to your door . . .*



**make sure your lines are advertised  
in the Daily Mail**

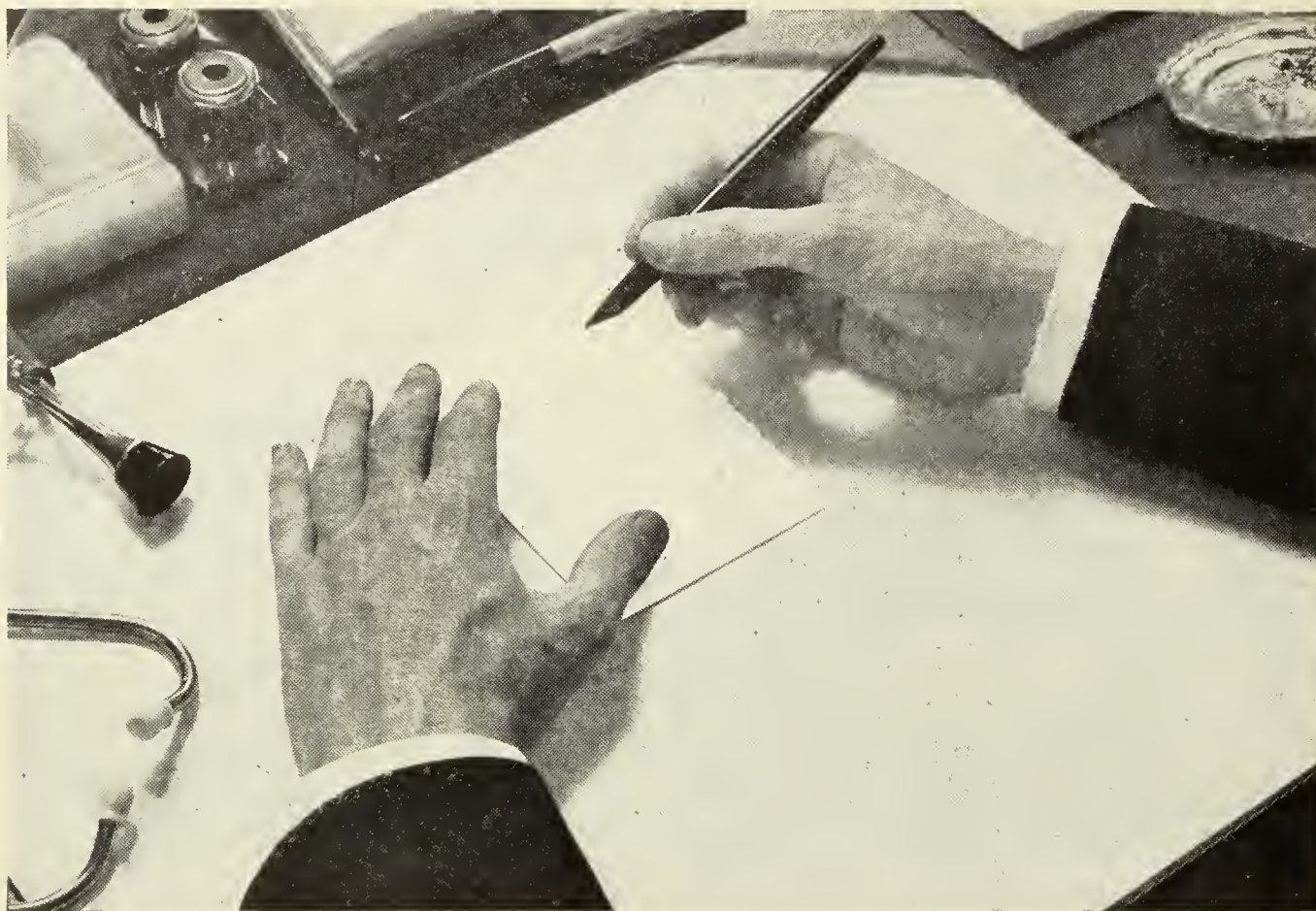
If you want *customers* to beat a path to your door, you must stock products with the right kind of advertising behind them. So when the salesmen call, the first question to ask them is this: "*Is the Daily Mail on the advertising schedule?*"

You know you're on to a good thing if it is. Because the people you look to for the great bulk of your business, the ones who come in *regularly*, tend to be Daily Mail readers. You may have noticed it yourself.

Daily Mail readers know the advertisements in their newspaper can be taken at face value. Before they ever appear in print they're carefully vetted for accuracy. If a customer is misled, and makes a genuine complaint, the Daily Mail will see that he gets his money back – if necessary by bearing the expense itself. All this in the interest of advertising that can be *believed*.

So be sure it's a Daily Mail-advertised product every time.

**YOUR BEST CUSTOMERS READ THE DAILY MAIL**



## He simply writes 'Codis' now

Doctors have long been aware of the value of compound analgesic preparations for the relief of susceptible pains and discomforts.

Now, it is generally agreed, a further advance has taken place in the analgesic field. Codis provides all the virtues of Tab. Codein. Co. B.P.—and more.

In Codis, agents have been added to solubilise

the aspirin base of Tab. Codein. Co. In water, Codis provides—with codeine and phenacetin—calcium aspirin.

It is substantially neutral, and is therefore extremely well tolerated.

For these reasons the medical profession has widely endorsed Codis. You will find yourself dispensing it increasingly often.



## **CODIS** REGD.

*Composition. Each Codis tablet contains: Acid Acetyl-salicyl. B.P. 4 gr., Phenacet. B.P. 4 gr., Codein. Phosph. B.P. 0.125 gr., Calc. Carb. B.P. 1.2 gr., Acid. Cit. B.P. (exsic) 0.4 gr.*

**CODIS IS NOT ADVERTISED TO THE PUBLIC**

**DISPENSING PACK** (Purchase Tax Free). 500 tablets in distinctive gold foils of 10 tablets each, 25/- per box.

**PUBLIC SIZES.** Pack of 20 tablets (in foil), 2/8 inc. P.T.; 8 tablets, 1/4 inc. P.T.

RECKITT & SONS LTD., HULL & LONDON, PHARMACEUTICAL DEPT., HULL

# RHODORSIL SILICONES

World renowned for their high quality  
and exceptional properties

SILICONE FLUIDS

SILICONE EMULSIONS

SILICONATES

WATER REPELLENTS

FOR COSMETICS,

WASHING OF PHARMACEUTICAL GLASSWARE,  
AMPOULE WATER REPELLENT TREATMENT

Samples and literature available on request from  
United Kingdom Distributors :

**R. W. GREEFF & Co. Ltd.**

GARRARD HOUSE

31/45 GRESHAM STREET, LONDON, E.C.2

and BIRMINGHAM · MANCHESTER · GLASGOW

## Millions see this advertisement for **MEDAPED CORN-AWAY**

in the NEWS OF THE WORLD, THE PEOPLE, JOHN BULL, WOMAN, WOMAN'S OWN, WOMAN'S WEEKLY, WOMAN AND HOME, MY HOME, WIFE AND HOME, etc., etc.

They'll be asking, too, about the other MEDAPED lines:-



**BUNION EASER**  
STOPS THE PAIN!  
HIDES THE BULGE!  
1/6 each

**FOAM CUSHION**  
4/6 pair  
FOR TIRED ACHING FEET!

**STICK-O-PADS**  
1/- per pkt.  
Instant relief for corns and callouses  
No moistening!

**TOPAD**  
NEW COMFORT for CORNS!  
SLIP ON PADS with loops  
2 for 1/-

**METATARSAL BRACE**  
Soft comforting support at the ball of the foot  
2/6 each

**CUSHY-TRED**  
1/6 per pair  
Relieves tenderness and painful callouses

**VAPORISER**  
5/6 pair  
for perspiring feet. Relief in 3 days!

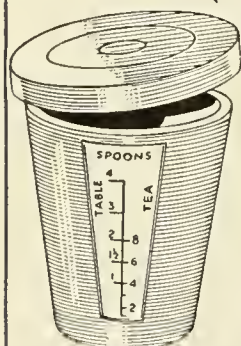
**CORNS**  
"killing" you?  
Remove them with  
**CORN-AWAY**  
the new medicated pads that really get to the "root" of the corn.  
6 medicated pads for 1/2  
Obtainable through Boots, Timothy Whites, Chemists, Lewis's and others.  
If any difficulty, write to POUNDGATE PRODUCTS LTD., Dept. M, 182/184, DAWES ROAD, LONDON, S.W.6

**The biggest value in foot aids!**  
**Order from your wholesaler today!**

Send for illustrated price list  
(stating name of wholesaler) to

POUNDGATE PRODUCTS LTD., Dept. M, 182/184, DAWES ROAD, LONDON, S.W.6

### AMBYTHENE (BRAND OF POLYTHENE)



#### MEDICINE MEASURES

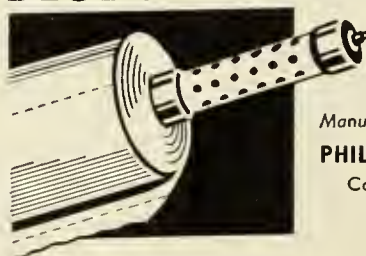
**UNBREAKABLE—ACCURATE**  
with or without close fitting lids obtainable from usual distributors at 12/1 dozen with lids or 8/9 dozen without lids.

Wholesalers' supplies obtainable direct from

**AMPLEX APPLIANCES (KENT) LTD.**  
19 DARTMOUTH ROAD, HAYES, BROMLEY, KENT  
(RAVensbourne 5531)

**Roma-Rol**  
PROV PAT

#### TOILET DEODORISER



The NEW combination Toilet Roll Holder and Deodoriser. Gives off a pleasant, healthy, floral fragrance.

Supplied with two removable adaptors to fit any size Toilet Roll.

Retail Price inc. P. Tax **8/11**  
Refills, 1/2 each

Manufacturers and Suppliers:-

**PHILLIPS TELESCOPIC TAPS LTD.,**  
Colliery Road, Birmingham Road,  
West Bromwich, Staffs.  
Tel.: WEST Bromwich 2354

#### HAVE YOU GOT YOUR COPY OF:

This book incorporates Rouse's Synonyms and contains over 7,000 Synonymous terms.

It is a most useful book of reference.

8/6 postage 7d. from

THE CHEMIST AND DRUGGIST • 28 ESSEX STREET • STRAND • LONDON • W. C. 2

## The Chemist's Dictionary of Synonyms?

**BURROUGH'S**

**S.V.R. DOUBLY RECTIFIED**

JAMES BURROUGH LTD.,  
1 CALE DISTILLERY LONDON S.E.11

TRADE **'VERLOG'** MARK

**SURGICAL ELASTIC HOSIERY**

Belts, Trusses, Suspensory Bandages, etc.

**ATHLETIC SUPPORTS**

Knee Caps, Anklets, Jockstraps

**THOS. GLOYER & SON, LTD., CARLTON, NOTTINGHAM**

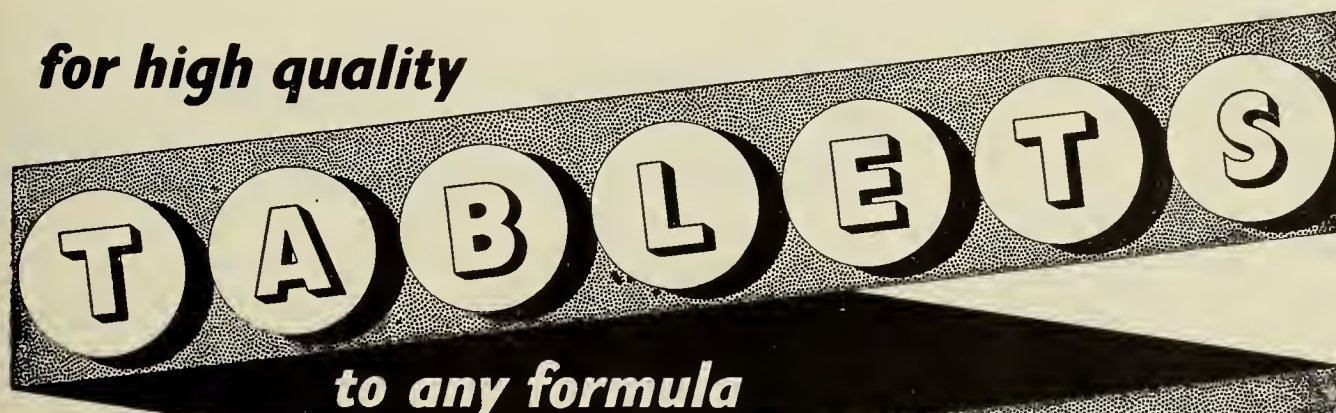
Tel.: 58227 (2 lines).

'Grams: Verlog, Nottingham

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*for high quality*



**consult CARTWRIGHTS**

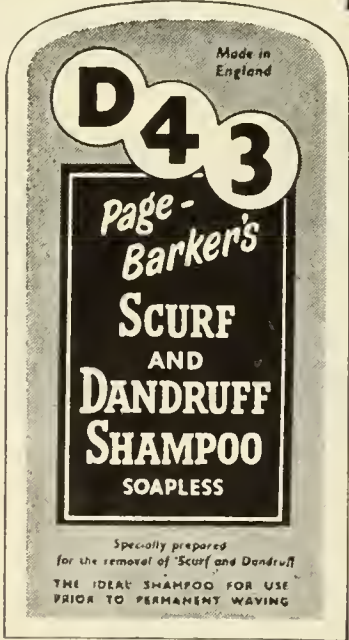
**W. B. CARTWRIGHT LTD.**  
Manufacturing Chemists  
**RAWDON · LEEDS**

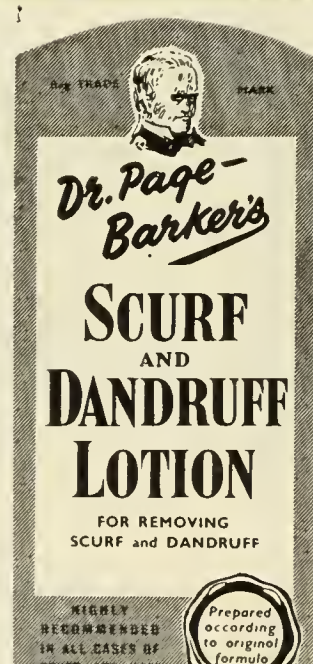
- Official tablets made to a high standard.
- Tablets to all types of formulæ.
- Laboratory control at each production stage.
- Your "OWN NAME" labels.
- Quotations gladly given.
- A dependable service for tablets in bulk or packed.

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*Two absolute winners!*





Dr. Page Barker. Everyone knows that name. It stands for quality. And it is quality and reputation that ensure repeated sales.

Dr. Page Barker's Scurf and Dandruff Lotion and D.43 Shampoo are known for their unfailing reliability in keeping the scalp clean and healthy. And healthy hair means hair with lustre and looks.

Stocking these popular lines, means that you have a share in the prestige and the profits!

A Page Barker Showcard, that will catch the customer's eye and remind him of his need is available on request.

THOS. CHRISTY & CO. LTD

North Lane, Aldershot Hants.

# Important News about Elastic Hosiery

## Scholl ANNOUNCE THE NEW

# Nylastik

Trademark

### NYLON ELASTIC YARN LIGHTWEIGHT STOCKINGS (N.H.S.)

Several years research and recent technical advances in elastic hosiery manufacture now make available the new Scholl NYLASTIK nylon elastic yarn stockings (lightweight) N.H.S.

"Nylastik" offer greater support and comfort to every woman who is advised lightweight surgical hose . . . yet they spare her the embarrassment of revealing that she wears elastic stockings!

### EXCLUSIVE & OUTSTANDING FEATURES

**NEW FABRIC.** A special "balance" of nylon and elastic yarn has achieved greater compression and support, with increased comfort for the patient and greater durability. Yet they remain undetected in wear.

**CRIMPED NYLON WELT.** A new developed process introduces an extra girthwise stretch to the welt, with improved fit and comfort at thigh.

**SPLICED HEEL AND FOOT.** Specially designed to improve the durability at these wearing points, and to improve fitting qualities.

**FULL-FOOTED.** The foot of each stocking is accurately shaped in crimped nylon to provide roomy comfort for all the toes . . .

**TRADE PRICE: 35/6 per pair**

Sizes: 8½, 9, 9½, 10, 10½ (usual stocking sizes)

Suggested order to meet immediate demand; 1 PAIR EACH of 5 SIZES

**ORDER TODAY!**

Prescribable on N.H.S.

## Scholl

# Nylastik

Trademark

NYLON ELASTIC YARN LIGHTWEIGHT

THE SCHOLL MFG. CO. LTD., 182-204 ST. JOHN STREET, LONDON, E.C.1

"I get wonderful  
comfort with  
Nylastik . . .  
and never feel  
self-conscious  
about my legs"





INTRODUCING

*Vandid*(Vanillic acid diethylamide)  
Brit. Pat. 683,435

## A valuable analeptic of prompt action

**The new respiratory and vasomotor  
stimulant. Lightens anæsthesia  
quickly without causing convulsions.**

Other indications include circulatory support during pneumonia, and in convalescents liable to orthostatic collapse; also in cardiorespiratory stimulation in cases of neonatal asphyxia and cyanosis.

The availability of this new analeptic is now being brought to the notice of the Medical Profession directly and by advertising in the medical journals.

*Supplies available through your usual wholesaler*

### PRICES

|                                                  | Pack   | Trade and<br>Hospital<br>Price | P.T. | Retail<br>Price incl.<br>P.T. each |
|--------------------------------------------------|--------|--------------------------------|------|------------------------------------|
| Ampoules 5% 5 ml. . . . .                        | 6      | 20/-                           | 6/-  | 36/-                               |
| (Prescribable on Form E.C.10)                    |        |                                |      |                                    |
| Oral solution 5% in<br>dropper bottles . . . . . | 15 ml. | 8/9                            | 2/7½ | 15/9                               |
| Tablets each 20 mg. . . . .                      | 20     | 5/-                            | 1/6  | 9/-                                |
|                                                  | 250    | 50/-                           | 15/- | —                                  |
| (dispensing pack)                                |        |                                |      |                                    |

Made by  
**CARNEGIES of WELWYN LTD.**  
MANUFACTURERS OF FINE CHEMICALS  
ESTABLISHED 1911  
Sole Distributors

Gt. Britain:

**SAVORY & MOORE LTD.**  
Lawrence Road, London, N.15

N. Ireland:

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Republic of Ireland:

**CONSTANT CHEMICALS LTD.**  
7, Dame Court, Dublin



'TREE OF LIFE'  
REGD. TRADE MARK

## THOMAS AND EVANS LIMITED

CORONA "FAMILY DRINKS"

MR. W. D. JAMES, CHAIRMAN, REVIEWS RECORD TRADING YEAR

### TRADING RESULTS FOR THE YEAR

The trading for the year was a record in the history of your Company and reference to the consolidated profit and loss account will show that the profits, after providing for all taxation except profits tax on distributions of profits, were £476,849, as compared with £190,614 for the previous year. From these profits your directors recommend that there be paid on the £1,500,000 Ordinary share capital now in issue a final dividend of 10 per cent., less tax, plus also a bonus of 5 per cent., less tax. This final dividend and bonus, together with the interim dividend of 5 per cent. paid last December on the £1,000,000 Ordinary share capital then in issue, will make a total distribution for the year of 18½ per cent., less tax, on the present capital of £1,500,000. The distribution for the previous year was the equivalent of 8½ per cent. on this present issued capital of £1,500,000.

### PROFIT AND LOSS ACCOUNT

After providing for all operating expenses that have arisen in the normal course of business, we are left with a figure of profits for the year, before taxation, of £971,106. The charge for taxation on these profits, including all profits tax, is £572,442, or almost 60 per cent. of the total earnings of your Company for the year.

We have deemed it prudent to retain the sum of £234,349 from profits and have transferred it to general reserve as a provision for renewals of assets and also for the future expansion of your Company. This retention is more than has been distributed to Ordinary shareholders in dividends and although the payment of a higher dividend would have been possible, your directors are of the opinion that it is in the best interests of the shareholders to retain within the Company this substantial appropriation from profits so as to safeguard the future running and expansion of your Company.

### ORDINARY SHARE CAPITAL

The issued Ordinary share capital is shown in the balance-sheet at £1,000,000, represented by 2,000,000 shares of 10s. each. I have already explained to you that in March this year, which is subsequent to the date of the balance-sheet, this issued Ordinary share capital was increased to £1,500,000 by a bonus issue of 1,000,000 Ordinary shares of 10s. each fully paid, and today the issued Ordinary share capital is £1,500,000, represented by 3,000,000 Ordinary shares.

### FIXED ASSETS

As shareholders are aware, it is the policy of your directors continuously to expand and develop the trading operations of your Company. During the last ten years we have spent approximately £4,000,000 on new factories and depots, on the purchase of existing businesses allied to our own, on new plant, new machinery, new equipment, new lorries and the like, and on buying land in selected areas on which we hope to build, equip and operate additional establishments at future dates. These expansions and developments throughout the years have cost a tremendous amount of money and have been financed in their entirety from the resources of your Company and without recourse to borrowing.

For some time past our professional advisers have been engaged on a valuation of our freehold and leasehold properties, and this valuation has disclosed a surplus of over £500,000 above the book values. No effect has been given to this valuation in the accounts now placed before you.

### CORONA AND TANGO

As many shareholders are aware, because they are customers, we have our long established and highly efficient door-to-door service for the convenience of housewives. For this service we have about 800 of our well-known red and gold *Corona* lorries on the roads, and our representatives call on their customers at regular intervals and deliver their requirements to their door. This service is greatly appreciated and we receive many tributes from satisfied customers. We give the highest value that we can in each bottle of *Corona* product that is sold and our prices are as low as it is possible to keep them.

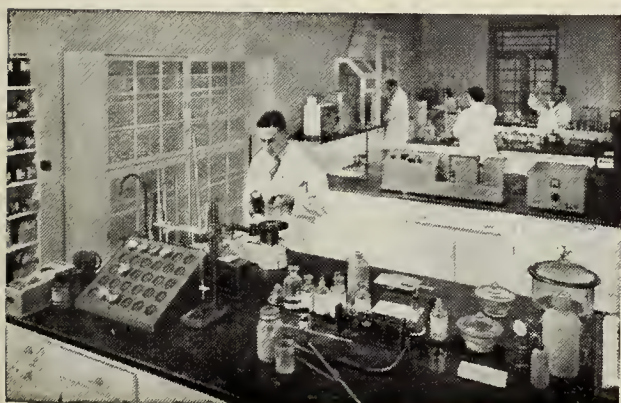
The Company continues to expand in the retail field, extending to over 40,000 retail outlets the advantages accruing to the stockists of our products. These stockists are able to enjoy the benefits of a large consumer demand created by the extensive advertising campaigns now being undertaken. At the present moment, the number of stockists is increasing at a faster rate than ever before due to the demand created for our new product *Tango* Whole Orange Drink.

# for the GREAT POTENTIAL MULTI-VITAMINS MARKET

**ONLY Scherer's**

**CAN PROVIDE THE COMPLETE  
CAPSULE SERVICE YOU DEMAND**

Multi-vitamins represent an important, rapidly growing market; they are essential to health. Only the large, *scientifically* controlled Scherer organisation is geared up to provide you with an unequalled, comprehensive and fully confidential production service—NOW.



## LABORATORY CONTROL Scherer's Triple Guarantee

1. All materials analysed on delivery.
2. All mixes analysed before encapsulation.
3. All capsules analysed before despatch and protocols available on request.

## PROTECTION

Hermetic sealing ensures the perfect, permanent protection, essential with many vitamins.

## YOUR SAFEGUARD

Thousands, or millions, of gelatin capsules can be produced completely to *your* formula—in colours and shapes *exclusive to you*.

## ACCURACY

Fill tolerance to within 1%.

R. P.

# Scherer Ltd.

*can encapsulate most  
pharmaceuticals—please ask for details*

## COMPLETE SERVICE

The Scherer service means no capital outlay on your part; you supply your formula, and the encapsulated products, guaranteed, will be delivered to you complete—even strip packed if you wish.

R. P. SCHERER, Ltd., 216-222 BATH ROAD, SLOUGH, BUCKS. Phone: SLOUGH 21241

*You might find*  
**BROMIDES & IODIDES**  
*here*

but *your* best source of supply  
is the **M&B** range of pharmaceutical chemicals.  
The range includes:

AMMONIUM BROMIDE B.P.C.

CALCIUM BROMIDE B.P.C.

POTASSIUM BROMIDE B.P. CRYST. AND POWDER

SODIUM BROMIDE B.P.

STRONTIUM BROMIDE B.P.C. 1934

IODINE B.P. RESUBLIMED

ODOFORM B.P.C. POWDER

POTASSIUM IODIDE B.P. CRYST.



MANUFACTURED BY  
**MAY & BAKER LTD • DAGENHAM**

Telephone: DOMinion 3060 • Extension 317

PHA1001



*When you  
are asked for  
'something to prevent  
travel sickness'*

**REMEMBER THESE  
FACTS**

**1** Hyoscine hydrobromide—the active ingredient of Kwells—has been proved by clinical and empirical experience, to have a greater degree of effectiveness, and a wider area of effectiveness, than any alternative drug.

**2** Kwells is not a new, untried formula. It was chosen for the troops on the 'D-Day' landings, and for over 10 years millions of people, including children, have prevented travel sickness with Kwells without a single instance of serious side effects ever having been reported.

**3** Although the retail price was recently increased because of higher production costs, Kwells is still the most economical of the established brands of travel sickness remedies.

**More people  
prevent travel  
sickness with  
Kwells than with  
any other  
remedy**

**E. GRIFFITHS HUGHES LIMITED, MANCHESTER**

**...it's  
Kwells  
that  
prevent  
travel  
sickness**



*per tube of 10 tablets  
FROM CHEMISTS ONLY*

BRITISH OXYGEN EQUIPMENT AND GASES...

USED EVERY DAY TO EASE PAIN AND SAVE LIVES



**“Please provide  
oxygen therapy set  
with Polymasks—  
MS 500  
48 cu. ft. oxygen”**

You might receive this prescription now that the new lightweight Single Unit Set for domiciliary oxygen therapy has been approved for use against E.C.10 orders. Developed by British Oxygen, this equipment is robust, easy to operate, and is supplied with two disposable Polymask inhalers. This domiciliary oxygen therapy equipment is now an essential item in a chemist's stock.

*For demonstration and full details of purchase write to*



**BRITISH OXYGEN**

British Oxygen Gases Limited  
Medical Div., Great West Road, Brentford, Middx.



# L'OREAL *of Paris*

**are the greatest makers of Hair Beauty Products  
in the world**

**TRESS**

**Color-Glo**

**Brown-Glo**

***Trill***

The greatest Hair Research Laboratories in the world are behind L'Oreal Products. That fact, and the marketing 'know-how' of Golden Ltd., distributors of all L'Oreal products marketed here, explains the continuing sales success of every Hair Beauty Product from L'Oreal of Paris.



wide range  
penetration  
sustained power

### in infections of the THROAT & MOUTH

Phenidex lozenges have an unusually wide range of antibacterial activity, and rapid spreading and penetrating properties. Their effect lasts from 45 minutes to an hour.

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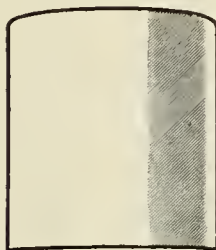
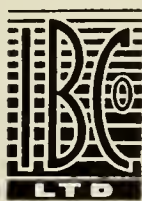
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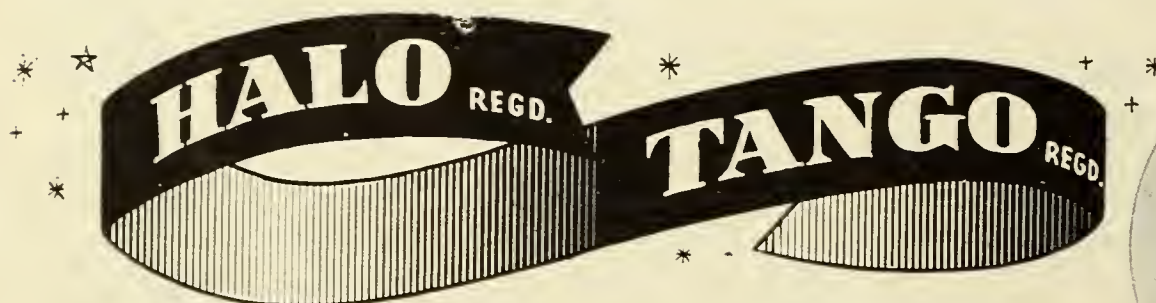
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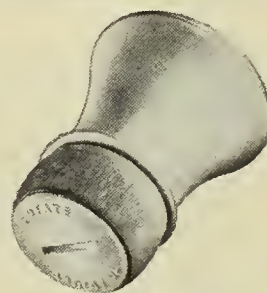
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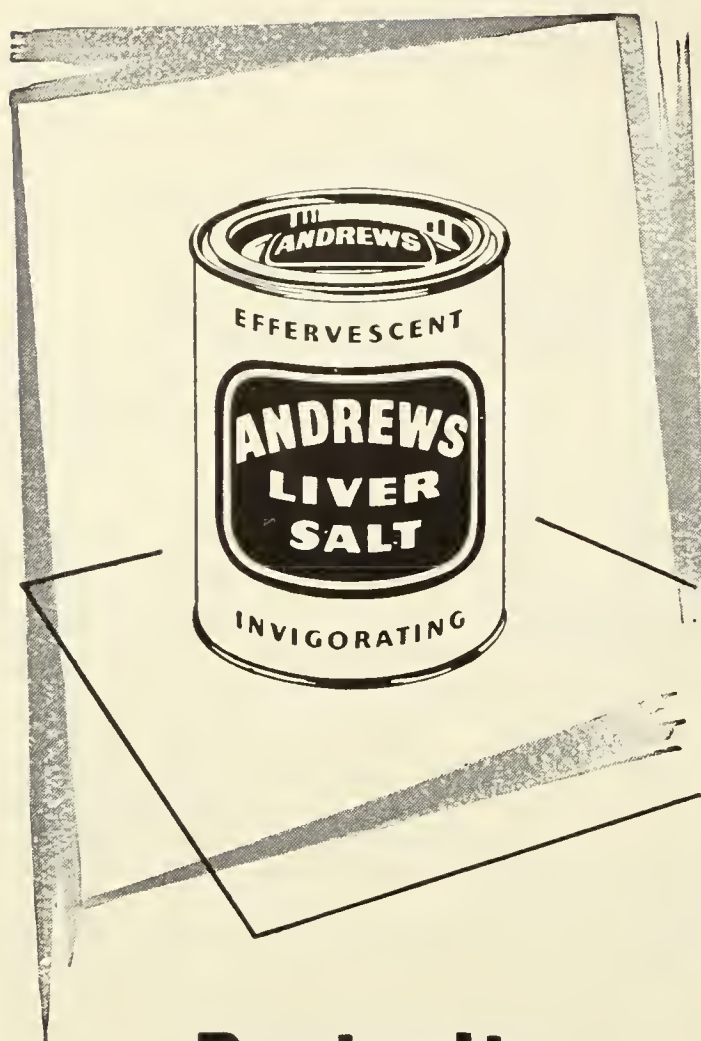


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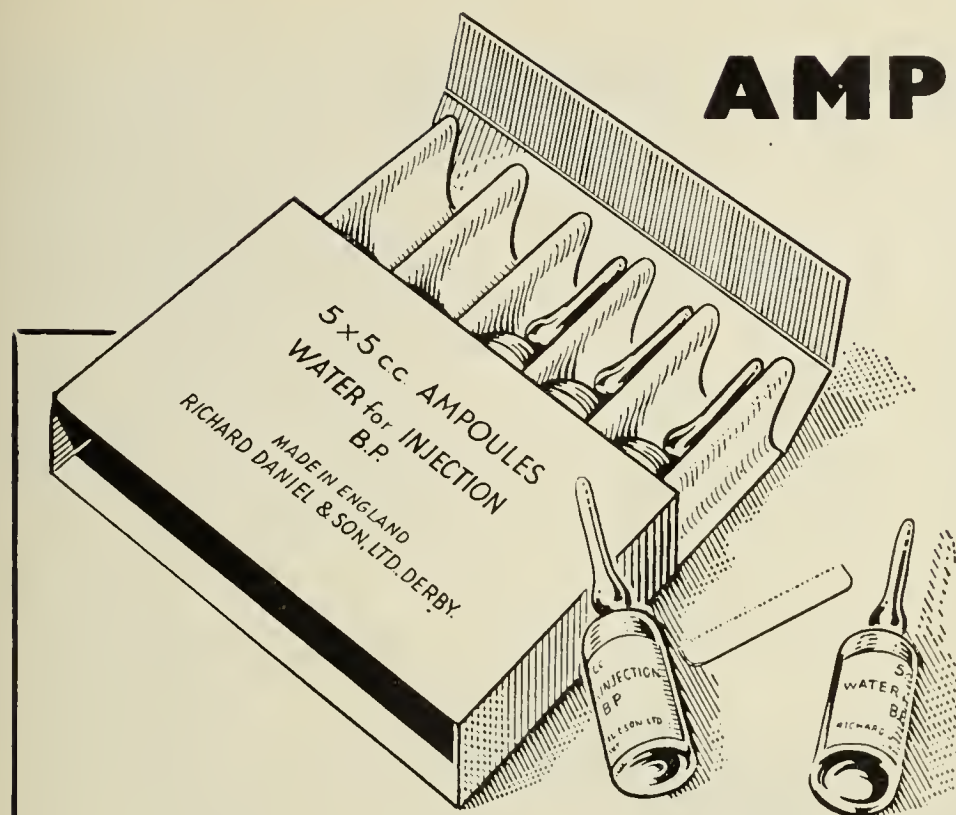
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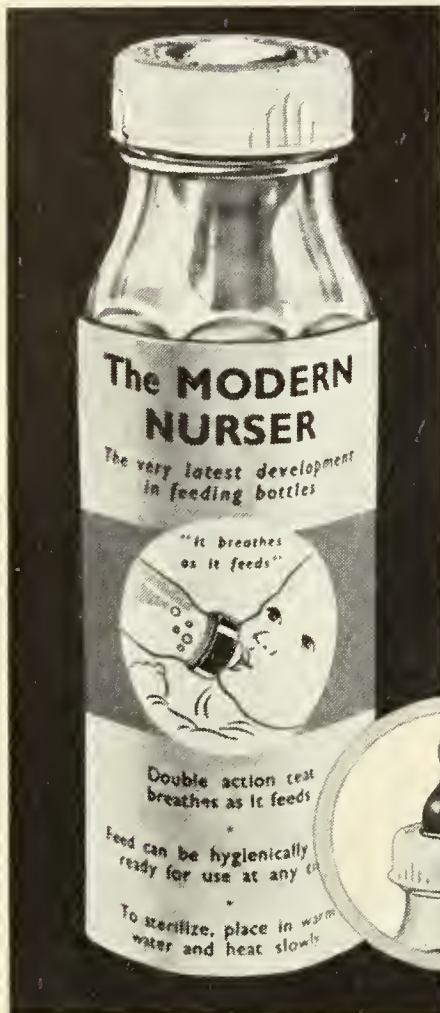
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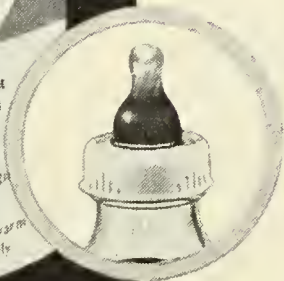
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# THE CHEMIST AND DRUGGIST

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The weekly newspaper for pharmacy and  
all sections of the drug, pharmaceutical and  
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 170

July 19, 1958

No. 4091

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PUBLISHED BY

MORGAN BROTHERS (PUBLISHERS), LTD.,  
at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

Branch Offices:

WOLVERHAMPTON: 89 Woodland Avenue, Tettenhall Wood.  
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# The CHEMIST AND DRUGGIST

Volume 170

JULY 19, 1958

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## Chemical Laboratory

### CHANGE IN NAME AND FUNCTIONS

CHANGES in the functions of the Chemical Research Laboratory (proposed by the Council for Scientific and Industrial Research) are announced. In addition the name of the Laboratory is now the National Chemical Laboratory. The Laboratory is concentrating its effort on a few objectives, covering only a limited part of the whole field of chemical research, so as to be able to make a real impact on selected problems of national importance such as the following:—(a) Problems that are appropriate neither to industrial research laboratories nor to universities, because of the necessity for special facilities, experienced staff and continuity of effort. Those include the determination of the fundamental physico-chemical properties of chemical compounds required, for example, by chemical engineers for the design of full-scale industrial plant. The related study of the development of techniques of purification of materials such as metals and chemicals, with a view to the supply of standard samples of pure substances for reference purposes, is also in that category; (b) problems, the solutions of which are of national economic value and have wide general applications to many industries, for example, fundamental and applied studies of the corrosion of metals; (c) problems, the solutions of which are urgently required in connection with the nation's atomic energy programme.

## Mental Health Research

### "A CHALLENGE TO SCIENCE"

MENTAL illness was today recognised as a problem imposing a duty and presenting a challenge to science, medicine and the community, said Mr. Derek Walker-Smith (Minister of Health) at the inaugural dinner of the Mental Health Research Fund Conference at Oxford, on July 14. The speed and stress of modern life increased the ratio of mental to physical illness. That was dramatically illustrated by the fact that in Britain two out of five hospital beds were for patients suffering from mental disorders. The field of mental health research was vast; comprehending not only the nature and treatment of mental illness but also man's entire social context. The danger was that the real problem might be lost in the fragmentation of separate skills and sciences. For that reason the mental health research worker, as well as being a specialist in his own field, needed to be a person with a broadly humanistic approach. Today, with the increasing pace of life and its attendant strains,

there was need of expert study of the nature of stress—of how it could be reduced and of methods of curing and preventing any ill effects it might have. Research was of prime importance and progress was only possible on a firm base of wide research and extended instruction.

## Prescribing Inquiry

### COUNTY DURHAM DECISION

COUNTY Durham Executive Council is undertaking an investigation of prescribing in its area. It is stated in the Council's annual report in which mention is made of a case in which the Council's medical committee found that a doctor had committed a breach of his terms of service and recommended that the cost of the prescriptions wrongly issued, £113 1s. 4d., should be recovered from him, and that £150 should also be withheld from his remuneration. The doctor appealed against the Committee's recommendation, and the decision of the Minister of Health on that appeal is awaited. The medical committee is to consider the results of the present investigation. Only six complaints were received by the Council during twelve months (four against dentists, one against a doctor, and one against a chemist). There were 220 pharmacies on the Council's list. Expenditure approved by the Council for 1957-58 was £2,932,257. Actual expenditure was £2,775 below that.

## Siloxanes

### DUTIES REIMPOSED ON IMPORTS

UNDER the Import Duties (Exemptions) (No. 14) Order (S.I., 1958, No. 1120) and the Additional Import Duties (No. 4) Order (S.I., 1958, No. 1121) the Treasury has withdrawn ex-

emptions from and reimposed Customs duty at 10 per cent. (under the Import Duties Act, 1932) on certain siloxanes and mixtures thereof and at 12½ per cent. on those mixtures of siloxanes which are varnishes. The Orders took effect on July 14.

## Hospital Pharmacists

### SENIOR GRADES' SALARY REASSESSMENT

A FURTHER reassessment is being made of the points grading for calculating the salaries of senior grades of hospital pharmacist, according to a circular issued by the Ministry of Health (H.M. (58) 56) on July 10. The effective date for the reassessment is July 1, and the period for assessment is the year January 1 to December 31, 1957.

## Examination Results

### SUCCESSES IN ENGLAND AND WALES

THE following candidates satisfied the examiners in the Intermediate examination held by the Pharmaceutical Society in England and Wales in June:—

ALVEY, Joan M., Birmingham; ASHTON, Yvonne M., Coventry; BILLINGTON, Anne E., Sutton Coldfield; BOOZER, Pauline A., Tunbridge Wells; BOWDEN, Jean E., Margate; BOWLES, Marion, Birmingham; BROOKS, N., Worcester; BROUGHAM, H. H., Merthyr Tydfil; BUDDEN, C. E., Taunton; BUDDEN, D. W., Birmingham; BURDETT, Myrtle E., Uppingham; CALVERT, Julia E., Sutton Coldfield; CHATTERTON, R. B., Louth; CHESTER, Lucille D., Liverpool; CLARKE, T. G., Braunstone; CLEWS, J. W., Bilston; CLUTTERBUCK, N. W. C., London Colney; COLLIER, J., Newport; COZENS, B. J., Eastbourne; CRABBE, A. M., Cardiff; CUNNAH, A. G., Rhyl; DAVIES, A., Carmarthen; DAVIES, B. A., Birmingham; DAVIS, R. H., Mer-



AFTER THIRTY-TWO YEARS: Mr. R. J. Stratton receives a cheque from colleagues (see p. 54).

thyr Tydfil; DE CAUX, Alison, Southport; DEIGHTON, D., Purley; DRAYCOTT, Kathleen E., Thurmaston; ECKERSLEY, E. L. K., Swindon; EDINGTON, J. D., Tufton; ELLIS, G. W., Caernarvon; EYRE, Barbara J., Worcester; FERRIS, K. F., Oxford; FISHER, R. V., Norwich; FOLLEY, B. A., Ilford; FOX, A. K., Worcester; FRITH, Frances, St. Helens; GASKELL, D. G., Halifax; GREENSLADE, Joan V., Exeter; HARRINGTON, Barbara M., Bridgend; HARRISON, R. B., Llandudno Junction; HARRISON, Sheila F., Oldbury; HAWKESWORTH, Joan E. D., Southampton; HELMAN, D., Wythenshawe; HILTON, K. T., Wigan; HOLMES, R., Lancaster; HOPKINS, J. A., Ventnor; HORN, Jennifer M., Oxford; HOUNSELL, B., Bridport; HULL, R. J., St. Helens; INSTONE, B. C., Newport; JEAPES, Christine A., Hastings; JONES, A. W., Bangor; JONES, D. B., Birmingham; JONES, I. F., Birmingham; JONES, J. B. E., Morriston; KEEN, B., Acton; KERMAN, Gillian M., Barry; LANGLEY, R. K., Wyde Green; LLOYD, T. H. E., Llandysul; McDERMOTT, Mary R., Manchester; MARTIN, R. W., Chatham; MEAKER, W. C., Kensington; MESSUM, Priscilla M., Redhill; MORRIS, G. H., Leeds; MORRIS, Mary K., Salisbury; NATHANAIL, P., Plymouth; NORTHWOOD, G., Penkridge; OBOWU, C. U., Hornsey; O'HARA, Margaret M., Birmingham; ONNY, Jane R., Brighton; ORMAN, B. A., Golders Green; OWEN, Ann P., Swansea; OWENS, R., Gelli Pentre; PATEL, S. S., Hampstead; PHILLIPS, Hazel G., Dowlais; PHILLIPS, M. A. W., Birmingham; PONTIN, M., Cardiff; POWELL, Margaret J., Cradley; PRICE, Christine M., Cwmbran; RANDALL, D. G., Farncombe; REES, D. I., Wotton-under-Edge; ROBERTS, Christine M., Prestwich; ROBERTS, Jean A., Wigan; SCREEN, Audrey M., Stoke-on-Trent; SEAGO, J. M., Rochdale; SHARP, Monica J., Brighton; SHEPARD, P. H., Newbridge; SIMMS, D. W. E., Kettering; SOUTHALL, W. J., Salford; SPINKS, A. G., Norwich; STEEL, J. T., Birmingham; STOKES, D. J., Tunbridge Wells; THOMAS, P. G., Cardiff; THRAXTON, J. A., Norwich; TINLINE, R. S., Liverpool; TUGWELL, Linda E., Acton; VICARY, J. M. W., New Eltham; WALUSIMBI, Catherine, Bristol; WARD, P. W. O., Dudley; WEEKS, D. H. A., Newcastle Emlyn; WHITWORTH, Shelah M., Bangor; WILKSON, Marjorie, Hazel Grove; WILLCOX, B. E., Rustington; WILLIAMS, Ann P., Pwllheli; WILLIAMSON, Carolyn M., Bournemouth; WITHERIDGE, Sheila M., Walsall.

## Full Pricing Urged

ELY CHEMISTS UNDERPAID BY £102

"IF we can dispense them, they (the pricing bureau) ought to be able to price them," commented Mr. J. A. Gardiner, M.P.S., 3 High Street, Ely, Cambridgeshire, at a recent meeting of the Isle of Ely Executive Council. It was stated that a "full price" check had disclosed that a firm of chemists in the Isle had been underpaid £102 in February. Mr. Gardiner told the Council that it was high time the full-pricing system was brought into operation to replace the averaging system of pricing prescriptions. It was decided to send a "strong" resolution to that effect to the National Health Service Executive Councils Association annual conference, and to the Ministry of Health.

## Chemicals to Schoolboys

PHARMACEUTICAL SOCIETY PRAISED

CHEMICAL experiments by schoolboys caused an increased number of injuries in 1957 compared with the previous year. The report of H.M. Inspectors of Explosives, 1957 (H.M.S.O., price 2s.) in giving that comparison expresses appreciation of the action of the secretary of the Pharmaceutical Society in requesting members not to sell chemicals to young people. Nineteen accidents are recorded as resulting in a total casualty list of thirty-three children.

## SCOTTISH NEWS

### Students' Prizes

AWARDS AT HERIOT-WATT COLLEGE

AMONG prize-winners who were presented with their awards by Mr. I. A. Johnson-Gilbert (Lord Provost of Edinburgh and chairman of the College Governors) at Heriot-Watt College, Edinburgh, on July 11, were the following who were undertaking the *Pharmaceutical Chemist Qualifying examination course: Third Year*:—Duncan Memorial medal and prize. J. Rutherford Hill conference prize for pharmaceuticals, prizes presented by Boots Pure Drug Co., Ltd., for phar-

macognosy and physiology: Douglas B. Drummond; prize presented by Evans Medical Supplies, Ltd., for pharmaceutical chemistry: Raymond Connolley; *Second Year*:—Prizes presented by Evans Medical Supplies, Ltd., for general excellence: Ian S. Swanson and Una Bateman; *First Year*:—Malpas memorial prize for physics: Isobel H. Jardine and Catherine M. Wylie.

## IRISH BREVITIES

THE NORTH

THE Chemists' and Druggists' Society of Ireland held their annual outing to Newcastle, co. Down, on June 18. The journey was broken at Downpatrick to enable the party to visit the cathedral and St. Patrick's grave. After tea Mr. Fred Storey, C.B.E. (president), welcomed the guests.

ORGANISED by the social subcommittee of the Associates' Section of Ulster Chemists' Association, the annual treasure hunt was held on June 18. About 180 pharmaceutical employees and friends taking part. The evening ended with supper and dancing. Prizes were presented by Mr. G. E. McIlhagger (president, Pharmaceutical Society of Northern Ireland) and Mr. J. A. Brown (vice-president, Ulster Chemists' Association) to Messrs. S. Rutherford, H. Semple and R. D. Sheldon.

## WHERE AVERAGING FAILS

### Executive Councils' campaign for full pricing

AT a meeting of the management committee of the Executive Councils Association (England) held recently, examples of large overpayments and underpayments to chemists were considered as examples of the shortcomings of the averaging system. It was agreed to continue the committee's policy of bringing such evidence to the notice of the Ministry of Health at every opportunity in an endeavour to bring about an early return to prescription pricing in full.

The support of the management committee was sought by the Tyne-mouth Executive Council to a proposal that prescriptions when issued should be valid for a limited period only. The committee felt that cases of delayed presentation of prescriptions for dispensing must be few in number and insufficient to warrant administrative action.

### Representations to Minister

Consideration was given to a letter from the Bristol Executive Council urging the Association to make representations to the Minister of Health to place more reliance upon the judgment of the chairman and pharmaceutical member of the Pharmaceutical Service Committee and allow them more discretion when deciding whether an Analyst's Certificate justifies reference to the Service Committee, particularly in cases where the error is trivial.

It was submitted that there should be consideration, not only of the percentage excess or deficit, but of the nature of the prescription and of the chemist's past record. For example, a small excess in the case of certain lotions might not necessarily be of con-

sequence whether considered in relation to cost or quality. Rigid adherence in every case to the specified tolerance, when it was obvious that the Service Committee must take a lenient view of the case, did not appear to justify the cost incurred, the work entailed, or the time spent by members of the Pharmaceutical Service Committee in considering and reporting. The management committee's opinion was that the advice contained in ECL 81/75 concerning marginal tolerances and the discretion of the chairman and pharmaceutical member of the Service Committee went as far as was desirable.

### Drug Test Certificates of Analysis

The management committee was informed that there existed among pharmacists in many parts of the country a strong feeling that they should be supplied with copies of the analyst's certificate on each occasion when samples were tested under the Scheme for the Testing of Drugs and Appliances whether or not the test resulted in a formal reference to the Pharmaceutical Service Committee. The Minister of Health had consistently frowned upon such a procedure but, despite that, two Executive Councils decided to provide chemist-contractors with copies of the analyst's certificates on all occasions. The Wakefield Executive Council, which had been approached by the Local Pharmaceutical Committee about the same matter, suggested that the question should be referred to the National Pharmaceutical Union. The management committee decided to adopt that suggestion.

## NEWS IN BRIEF

INDEX figure of retail prices at June 17 (January 1956 taken as 100), was 110, compared with 109 at May 13.

LANCASHIRE Executive Council has recommended that £500 should be withheld from the remuneration of a woman doctor for excessive prescribing.

THE Minister of Health has appointed Dr. D. Thomson (principal medical officer, Ministry of Health) to be a deputy chief medical officer from October 1, on the retirement of Dr. G. A. Clark.

A CLAIM by the British Medical Association for a further interim pay increase before the report is published of the Royal Commission on Doctors' and Dentists' Remuneration has been rejected by the Minister of Health.

THE Rivers Pollution (Restriction on Proceedings) (Continuance) Order, 1958 (S.I. 1958, No. 1046) extends by three years the period specified in section 8 (2) of the Act during which river boards are prohibited from taking action without the consent of the Minister of Housing and Local Government in respect of certain contraventions or apprehended contraventions. The period, as now extended, expires on July 31, 1961.

## SPORT

**GOLF.**—SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY, at Ifield golf club, on July 6, *Stableford competition*, 1, C. J. Martin, 1field, 37; 2, G. G. Jamieson, Shirley Park, 33; *Visitors' prize*, 1, B. Finer, Ifield, 33.

IRISH CHEMISTS' GOLFING SOCIETY, annual four-day outing, held at Lahinch golf club, co. Clare, recently. Opening competitions on the Sunday were for trophies presented by Imperial Chemical Industries, Ltd. On Monday the president's prize was competed for, and Tuesday was devoted to playing for prizes donated by many firms, while Wednesday was a "field day" for the captain's prize. On the Wednesday evening over sixty sat down to dinner at which the guests included the president of the Pharmaceutical Society of Ireland (Mr. M. Power). **SUNDAY:** *First strokes*, 1, S. O'Neill (11), 71; *Second strokes*, 1, P. Smith (16), 73; *best first nine*, T. J. Lynch, 37; *best second nine*, J. Power, 38. **MONDAY, President's prize**, J. Hanley (5), 73; *First strokes*, D. P. McHugh (8), 74; *Second strokes*, J. Holland (15), 76; *First bogey*, M. L. Cashman (9), 1 up; *Second bogey*, M. G. Murphy (4), 2 down; *Best first nine*, F. Reen, 36; *Best second nine*, C. Staunton, 35; *Nine hole four-ball*, J. T. Foley and T. J. Lynch, 4 up. **TUESDAY: Class one**, 1, M. Prendergast (6), 3 up; 2, D. P. McHugh (7), 1 up; *Class two*, 1, P. Dennehy (13), 2 down; 2, C. Staunton (14), 2 down; *Class three*, 1, K. Banks (18), 3 down; 2, J. Dawson (16), 4 down; *Four-ball*, D. Mulvey and K. Banks, 3 up. **WEDNESDAY: Captain's prize**, J. T. Foley (16), 70; *First strokes*, J. Smyth (12), 74; *Second strokes*, T. J. Lynch (6), 75; *Third strokes*, D. Arnold (11), 76; *Fourth strokes*, P. Morgan (13), 76; *First bogey*, W. Dalton (10), 2 up; *Second bogey*, J. Lennon (9), all square; *Third bogey*, D. Mulvey (8), 2 down. **SPECIAL CLASS PRIZES: Class one**, M. L. Cashman (8), 78; *Class two*, A. Hurson (15), 76; *Class three*, J. B. O'Connor (20), 76; *Nine hole Scotch foursomes*, 1, E. Connolly and W. F. Keyes 36½; 2, P. J. Hickey and J. Gilmartin 38½.

At an outing to Castle golf club, Rathfarnham, Dublin, recently prizes were donated by Kodak, Ltd., and Aspro, Ltd. *Eighteen holes strokes*, 1, R. D. Arnold (11), 67; 2, J. Lennon (9), 69; *Best first nine*, J. Pattison, 34½; *Best second nine*, J. F. O'Connor, 33; *Eighteen holes bogey*, 1, D. Mulvey (8), 2 up; 2, J. Smyth (12), 1 down.

## TOPICAL REFLECTIONS

By Xrayser

*Ill-health by Numbers*

In a debate on that perennial topic—the drug bill—in the House of Lords, Lord Moran referred (p. 28) to the system adopted in two other countries, where drugs are separated into three groups. Those categories were: first, the life-savers, about a dozen in number, paid for by the State; second, a class "where some good is done by them," paid for partly by the State and partly by the patient; the third class included the great number of tonics for which the patient paid the full amount. Lord Moran suggested that we in Britain might come to that. One could hazard a guess at the so-called "life-savers," which might conceivably include drugs for such conditions as diabetes and pernicious anæmia, besides the wide range of antibiotics, though the point has been made that it has been found, in one of the countries recognising such classification, that there is a tendency for the prescriber to save his patient's pocket by prescribing the first group more freely than he might otherwise have done. But, by whatever standard the second group is formulated, it must be a discouraging prospect to be asked to pay part of the cost of a group of medicines where only "some good is done by them." Faith which, we are told, plays a big part in healing, is hardly likely to be stimulated by the knowledge that the elegant or the nauseous is calculated to effect only a partial cure. The veriest placebo can do better than that, and it may even be life-saving in its effects. The line between the second and third groups would be difficult to draw and, taken altogether, I cannot see that anything is to be gained in that direction. From the purely pharmaceutical aspect, the indiscriminating shilling an item has provided quite enough in the way of friction without the complications of medicines by numbers.

*Paying on Demand*

In his comprehensive article on pp. 39–40, "Committeeman," in discussing the effects on pharmacy of the National Health Service, made a comparison which is worth a little thought. He makes the point that the telephone service is on tap at all times, and that the gas and electricity services may be used for a variety of purposes, but that it must be noted that, in those examples of services, users pay on demand for the services they employ. Not so, he says, in the Health Service, where the user regards it as a freely offered service, paying certain weekly contributions the service then being available for all practical purposes without paying on demand. I found the observation of interest to me as a chemist contractor, because in fact the chemist contractor himself is employed on the self-same basis as the telephone, the gas or the electricity. The only difference is that he is employed on contract, directly to an Executive Council, and only indirectly to the user of the service. The basis of his (the pharmacist's) contract is that he is paid only for services rendered. The ultimate paymaster, namely the Government, pays only for what it uses, through its insured contributor, for goods and services. The moment work finishes on a prescription, the Government ceases to pay until it requires more in the way of drugs and pharmaceutical skill. In the case of the doctor with his capitation fee, the situation is different, but pharmaceutically we are as gas, or telephone, or electricity.

*Intense Competition*

In his annual review of the affairs of the Beecham group, Lord Dovercourt (its chairman) referred (p. 30) to the continuing intense competition among dentifrices. In the course of his remarks he said: "Over the years an increasing proportion of dentifrices has been sold through grocers, and the growing strength of the group's sales force calling on grocers has helped us to take advantage of this trend." It would appear that any attempt to create or maintain the goodwill of the pharmacist has little place in the policy of the firm concerned, and unfortunately it is not alone in its avid cultivation of alternative and additional points of distribution. But a public utterance of the kind quoted is of value. We at least know where we stand.

## RESTRICTIVE PRACTICES COURT

### Counsel given procedural details

ON July 9, Mr. Justice Devlin and Mr. Justice Upjohn gave directions in open court on a number of matters of procedure to be adopted at the Restrictive Practices Court in connection with the agreement between members of the Chemists Federation. MR. JUSTICE DEVLIN said that the Court was being invited to make new law. The burden, however, was on the Federation to prove its case and the Registrar was there to make such inquiries as he thought fit and to demolish that case. MR. J. R. CUMMING-BRUCE (for the Registrar) said . . . "a very considerable number of wholesalers have for many years been trying to get on to the wholesalers' list of the Chemists Federation. The court will appreciate that such persons who are still trying to get on to the list and have no idea whether, as a result of proceedings, the restrictions will continue or not, are a little chary of coming forward. Although they disagree with the operation of the restrictions to date, and feel that they have been prejudiced by them, they are apprehensive of any undue publicity which might well do them some harm when their next application to go on the Chemists Federation wholesalers' list is made." Similar difficulties might also be encountered by manufacturers, he said and "so they, too, are naturally sensitive about placing themselves, unless absolutely necessary, in a position in which they may generate what is called 'negative publicity' among retailers on whom they depend. The Registrar is reluctant, having regard to what he considers to be his proper duty to safeguard the position of persons who have come forward with a view to helping the court explore the restrictions, to take any step which will expose anyone to any unnecessary commercial harm."

MR. JOSEPH DEAN (for the Federation) said that, so far as the Federation was concerned, there was no ground whatever to suppose that anything said by a witness would affect the attitude of the Federation to an application by him for membership. The Federation had not exercised and did not intend to exercise any pressure with regard to any evidence that a witness might give. There would be no retaliation, either from the Federation or from the people acting for it.

### Thousands of Products

For the Registrar it was stated that his expert evidence had not yet reached an advanced state. Some thousands of products were being considered. The major issue was whether the C.F. restrictions safeguarded the public by limiting the distribution of products to pharmaceutical chemists. The Registrar hoped to submit that the court would only be concerned with 5 per cent. of the products, and then the question would be whether it would cause harm to the public if the remaining products were distributed by others—for example grocers. Mr. Cumming-Bruce requested further and better particulars of the Federation's case, especially

concerning the standards applied when applications for membership were considered. Mr. Dean replied that the conditions and standards must vary according to the type of business, the accommodation, and so on. If the Federation were asked about a particular case they could answer.

MR. JUSTICE DEVLIN asked counsel to consider whether that might be dealt with in the form of cross-examination. The case would last about three weeks, and there would be time to consider the answers of witnesses.

## IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

DURING a discussion on July 8 on the Import Duties (General) Order MR. JULIAN SNOW referred to the cost of the National Health Service and mentioned that certain drug production in this country is protected by import duties amounting to as much as 33½ per cent. in some cases. He also said that many of the producing companies in this country are not properly called British industry, in the sense that, while they are British-established companies they are, from the shareholding point of view, foreign. Although they are largely American, they are not exclusively so. He wanted to know what consultations had taken place in relation to those chemicals, not only as regards the protection of industry, but as regards National Health Service cost. Why was it that when a new drug was imported it was assumed that it would attract the highest possible duty? That seemed wrong and against both the interests of the public and those of the commerce concerned.

### Chemical Inspectors

DR. BARNETT STROSS asked the Minister of Labour on July 9 whether he had succeeded in trebling the size of the chemical and engineering branch of the Factory Inspectorate. MR. IAIN MACLEOD stated that since the publication in October 1956 of the White Paper on the Staffing and Organisation of the Factory Inspectorate, the number of engineering and chemical inspectors in post has been increased from eighteen to twenty-four, and six more are being appointed.

### Consumer Safeguards

MR. ANTHONY GREENWOOD on July 3 referred to Labour party plans to protect consumers. He said the Party propose quality labelling of all goods that reached a reasonable quality standard, and effective descriptive labelling of goods, giving information of their composition and performance. "Where safety or health is involved . . . the production of goods below a proper standard should be prohibited."

In a written answer on July 3 the Home Secretary stated: The Poisons Board, at its meeting on June 18, decided that the evidence before it was insufficient to warrant any change in the recommendation made by the Board in 1955 that preparations con-

Before adjourning until July 30, the court granted an order for discovery, on the application of Mr. Dean who said "the Registrar has had complete discovery of all our documents throughout the whole of the relevant period and therefore is already adequately seized of the nature of our case, our activities and so on. But so far as the respondents are concerned, they have absolutely no information, beyond the answer, as to what is going to be said against them. The Registrar has been carrying out investigations during the past year in order to acquire material. It is that material which we say he ought to disclose to us." Mr. Justice Devlin made the appropriate order.

taining carbromal, or carbromal and bromvaletone, should not be controlled under the Poisons Act. He felt bound to accept the recommendation. However the Minister, at the suggestion of the Board, proposed to invite the Committee on drug addiction, recently set up under the chairmanship of Sir Russell Brain, to examine further the risks attending the abuse of such preparations.

### Poliomyelitis

On July 10 MR. S. S. AWBERRY asked the Minister of Health what examination was being made into the causes and prevention of poliomyelitis, other than by injection of vaccine.

MR. DEREK WALKER-SMITH said that in addition to the epidemiological investigations that are made when cases of poliomyelitis occur, research is proceeding all the time into various aspects of the disease and its prevention.

### Polio Vaccine For Travellers

MR. DEREK WALKER-SMITH said on July 14 that there were no comprehensive arrangements under the National Health Service to supply poliomyelitis vaccine to adults travelling overseas.

### Registration of Chiropodists

DR. D. JOHNSON asked if arrangements would be made in the envisaged legislation to enable practising chiropodists, whose qualifications did not meet the new requirements to continue to practice.

THE MINISTER OF HEALTH stated that under the registration scheme as at present drafted the responsibility for admitting persons to the register was with the registration Board, but if the scheme for the statutory registration of professions supplementary to medicine broke down, then he would be prepared to consider whether any revision of the arrangements was necessary.

### Health Centres

Replying to a question about health centres MR. R. THOMPSON stated that nine had been established by local health authorities since the Health Service began. Three were under construction, and another is to be started this year. Nine other schemes had been proposed, and three at least of those were likely to be started in 1959-60.

**Doctors' Remuneration**

In a written answer on July 14 concerning the Royal Commission on Doctors' and Dentists' Remuneration, MR. DEREK WALKER-SMITH stated that the necessary information would not be completed for some months and while the Commission intended to submit its report as quickly as possible thereafter, it did not expect to be able to do so until next year.

**Purchase Tax**

MR. G. NABARRO asked Sir David Eccles (President of the Board of Trade) on July 15 to take up with the Chancellor of the Exchequer the incidence of purchase tax on packages of cosmetics and toilet preparations including aerosols, but SIR DAVID stated that he would have to leave that problem for some time.

**Foreign Enterprise in U.K.**

MRS. J. MANN asked the President of the Board of Trade on July 15 what consideration he had given to simplifying the procedure whereby industrialists from the United States and other foreign countries had to apply for permission to establish factories and other industrial enterprises in the United Kingdom. SIR DAVID ECCLES stated that it was difficult to simplify the procedure because of the requirements of exchange control and the care taken with regard to the location of industry.

**Plant and Building Allowances**

MR. HEATHCOAT AMORY (Chancellor of the Exchequer) on July 15, moved an amendment which was agreed, to give effect to the proposed increased rates of initial allowances for capital expenditure of 30 per cent. for plant and machinery and 15 per cent. for industrial building, instead of the 25 per cent. and 12½ per cent. originally proposed in the Budget.

**WEST GERMAN CHEMICAL EXPORTS****Leverkusen's ratio to home sales rises**

THE report for 1957 of Farbenfabriken Bayer, A.G., discloses an increasing percentage of export trade in the total turnover. Turnover at home rose from DM. 959.4 million to DM. 1,094.3 millions. Export turnover went up from DM. 636.3 million to DM. 758.8 million and the export ratio from 40 per cent. to 41 per cent. The ratio was 31 per cent. in 1952 and has risen each year since. Particular importance, it is stated, attaches to the fact that exports to European countries showed a particularly steep increase of DM. 79.2 million, or 24.5 per cent., thus bringing Europe's share in the company's export turnover as a whole to 53.4 per cent.

The group's labour force rose by 6.4 per cent. to 49,797 at the end of the year. Research work was further strengthened compared with the previous year. Extensions to scientific laboratories and improved equipment cost DM. 12.6 millions. Whilst sales in 1956 included almost 40 per cent. of products which had not been manufactured in the company's plants before 1958, the share rose to almost 44 per cent. in 1957.

Sales of pharmaceutical products

**December 27**

On July 15 MR. J. HARRISON and MR. R. G. PAGE unsuccessfully requested that Saturday, December 27, should be treated as a public holiday.

**Outdoor Advertising**

MR. HENRY BROOKE (Minister of Housing and Local Government) stated on July 15 that he was examining a number of proposals made at a meet-

ing with representatives of organisations concerned about advertisements on business premises. (See C. & D., July 12, p. 25.)

**Merchandise Marks**

SIR DAVID ECCLES reported on July 15 that the Board of Trade were responsible for twenty-three prosecutions under the Merchandise Marks Act during 1957 and of eleven during the first six months of this year.

**COMPANY NEWS**

Last year's figures in parentheses

G. B. KENT & SONS, LTD. — Group profit for 1957 is £24,166 (£20,508), less tax, £15,023 (£12,021). Ordinary dividend 93½ per cent. (same).

ROLLS RAZOR, LTD. — No dividend is to be paid on the Deferred shares for 1957 (same). The last payment made was the 25 per cent. for 1953. A group net loss of £52,239 was incurred (against a loss of £92,692).

SANGERS, LTD. — Second interim dividend of 20 per cent. is declared in place of final, making 30 per cent. (same). Group profit £507,956 (£465,643) before profits tax of £75,000 (£73,000) and income tax £205,622 (£199,603).

HARDMAN & HOLDEN, LTD. — Net profit for year to March 31, was £186,914 (£212,177), before tax £85,022 (£89,348), and dividend 17½ per cent. (same). Mr. K. G. Holden (chairman) says sales for first two months of current year are virtually the same as corresponding period last year, but there is every indication future profits will be harder to earn.

P. P. PAYNE & SONS, LTD. — Despite a difficult trading period with rising costs, keen competition and a small decline in the demand for general

products, turnover increased by 12 per cent. in the six months to March 31, wholly in the sale of new packaging products. The turnover still continues to expand, the directors state, and the future is viewed with quiet confidence. The parent company's trading profit for the period is £74,948 (against £88,037). After depreciation of £22,834 (£20,840), the net profit, before tax, is £52,114 (£67,197).

ASPRO NICHOLAS, LTD. — In his review circulated with the accounts for the year ended March 31, the chairman (Mr. M. A. Nicholas) states that the increased profit for the year (see C. & D., June 14, p. 630), was brought about by widening the scope of the company's merchandising activities and the short-term repercussions of the influenza epidemic. The French franc devaluation accounted for a drop of £39,000. Sales in export territories, other than Egypt, showed a satisfactory increase over the previous year.

**New Companies**

P.C. = Private Company; R.O. = Registered Office

PHOTILITIES, LTD. (P.C.). — Capital £1,500. To carry on the business of manufacturers of and dealers in cameras and photographic materials, apparatus and equipment, etc. Directors: George F. V. Bird and Marjorie A. Bird. R.O.: 142 Great Charles Street, Birmingham, 3.

LEVMEDEC, LTD. (P.C.). — Capital £50,000. To carry on the business of manufacturers of and dealers in chemical, medical, pharmaceutical, veterinary and cosmetic preparations, etc. Directors: V. Cavendish-Bentinck, Dr. W. Molfenter, H. A. Siepmann, and H. Wilmes. Levmedic, Ltd., is a pharmaceutical subsidiary of Farbenfabriken Bayer, A.G., Leverkusen, Germany. Address: 37 Bedford Row, London, W.C.1.

SMITH & NEPHEW-SOUTHALLS, LTD. — Smith & Nephew Associated Companies, Ltd., announce the formation on June 16 of a new company. Smith & Nephew-Southalls, Ltd., as a sales organisation to undertake distribution of the surgical dressings and sanitary protection products formerly marketed by Arthur Berton, Ltd., Lilia-White (Sales), Ltd., Southalls (Birmingham), Ltd., and the surgical dressings division of Smith & Nephew Textiles, Ltd. Mr. A. E. Smith, formerly a director of Smith & Nephew Textiles, Ltd., has been appointed managing director, and Mr. A. Berton a director. The offices of the new company are 256 Old Street, London, E.C.1 (telephone Clerkenwell 9022).

## MARRIAGES

**APPLEYARD — BROOKE.** — At Mirfield Parish Church, Yorks, on July 12, Brian D. Appleyard, M.P.S., 12 Cardinal Road, Leeds, and Shirley Brooke, M.P.S., 105 Clarkson Street, Ravensthorpe, Dewsbury, Yorks.

**HIRST — FORREST.** — At Calverley Parish Church, Leeds, on July 9, Frank John Hirst, M.P.S., Highcroft, Cemetery Road, Padsey, Leeds (a director, F. M. Rimmington & Son, Ltd., chemists, Bradford) to Elizabeth Mary Forrest, Lockard, Woodhall Park Mount, Stanningley, Leeds.

## Diamond Wedding

**BROWNLOW—EASOM.**—At Sage Cross Wesleyan Chapel, Melton Mowbray, Leics, on July 6, 1895, Robert Whiteley Brownlow, M.P.S., to Agnes Easom. Present address: Southland, Hamilton Drive, Melton Mowbray. Mr. Brownlow is still on the register of the Pharmaceutical Society (he qualified in 1895) although retired from full-time active participation in his business which was taken over by one of his two pharmacist sons some years ago. The other son is in business at Stratford-on-Avon. A special article on eighty-six-year-old Mr. Brownlow's career with particular emphasis on the leading part he has played in the public affairs of Melton Mowbray (he was recently re-elected chairman of the Town Estate meeting for the twenty-seventh successive year) was published in *Melton Mowbray Times* on July 4.

## DEATHS

**BELL.** — Recently, Mr. John Bell, M.P.S., 2 St. Georges Road, Cullercoats, Whitley Bay, Northumberland, aged sixty-six.

**CAREY.**—On June 28, Mr. Andrew Carey, F.P.S., 3 Cumberland Avenue, Chilwell, Nottingham. Mr. Carey qualified in 1943.

**GEORGE.** — At Glasgow recently, Mr. Ernest James George, founder and former principal of Ernest J. George & Co., chemists' valuers, etc. Mr. George was in his eighty-fifth year.

**GORDON.**—On June 24, Mr. William Henry Gordon, M.P.S., 8 Littleton Crescent, Harrow, Middlesex. Mr. Gordon qualified in 1901.

**MOSS.**—A memorial service for the late Mr. Edgar Moss, M.P.S. (see C. & D., July 12, p. 30), is being held at Feltham Methodist Church, Hanworth Road, Feltham, at 4.15 p.m. on July 23.

**SUMMERHAYES.** — Recently, Mr. Tom Edwin Summerhayes, M.P.S., 72 Norbury Road, Thornton Heath, Surrey. He qualified in 1920.

## PERSONALITIES

**MR. C. T. HODGSON, M.P.S.,** has been installed as president of Newtown (Montgomerys) Rotary Club.

**MR. THOMAS K. R. DEWE, M.P.S.** (managing director, T. K. R. Dewe, Ltd.), has been invested president of Rye and Winchelsea Rotary Club, Sussex.

**MR. R. J. STRATTON, M.P.S.,** who recently retired after thirty-two years as chief pharmacist of Ipswich

and East Suffolk Hospital, Anglesea Road Wing, was presented by the hospital staff with a cheque and an album containing the names of the subscribers on June 27. The presentation was made on behalf of the staff by Mr. A. Hill (senior general consulting surgeon, at right in the illustration on p. 49). Mr. Stratton is being succeeded by one of his former apprentices, Miss H. M. R. Richardson, M.P.S.

**MR. W. J. WAKELING** has retired after fifty-nine years' service with Johnsen & Jorgensen, Ltd, shortly after celebrating his seventy-fifth birthday and to give him a happy send-off on the occasion of his retirement, the directors of the company together with members of the staff and business and personal friends and relations, held a dinner in London recently, followed by farewell speeches and presentations. At his retirement he was head of one of the company's glass bottle departments.

**MR. CYRIL H. WILKINS** (managing director, The British Drug Houses (Canada), Ltd.), was at the spring meeting of the Canadian Pharmaceutical Manufacturers Association appointed the Association's first honorary director. The following recommendation was carried by unanimous membership vote: "That Cyril H. Wilkins be appointed an honorary director of this association in recognition of his many outstanding contributions to manufacturing pharmacy in Canada; that the terms of reference of this award be prepared and approved by the board of directors for inclusion in a presentation ceremony to be held at the forty-fourth annual general meeting; that the term of office of this appointment be for as long as Mr. Wilkins is active in industry affairs; and that the appointment itself be made effective immediately."

## BUSINESS CHANGES

**BIRKENHEAD CO-OPERATIVE SOCIETY, LTD.,** plan to open a pharmacy in Wirral in the near future.

**LAUGHTON & SONS, LTD.,** is the new title adopted by Jarrett, Rainsford & Laughton, Ltd., Warstock Road, Birmingham, 14.

**NEWBERRY & PHILLIPS, LTD.,** have removed to Farleigh Place, Farleigh Road, London, N.16 (telephone: Clissold 7205).

**JOHN DALE, LTD.,** have acquired Impact Extrusions, Ltd., Feltham, Middlesex.

**THE** telephone number of Riddell Products, Ltd., 10 Dunbridge Street, London, E.2, is now Shoreditch 7254.

## Appointments

**LEDERLE LABORATORIES DIVISION, CYANAMID OF GREAT BRITAIN, LTD.,** Bush House, Aldwych, London, W.C.2, have appointed Mr. D. Flett their sales manager.

**UNIVERSAL METAL PRODUCTS, LTD.,** Langley Road, Salford, 6, Lancs, have appointed Mr. Reginald E. Hook sales manager of their metal department.

**CARLTON LABORATORIES (SOUTHERN), LTD.,** 2 Norfolk Square, Brighton, Sussex, have appointed Mr. J. Duncan their medical representative for Sussex and Surrey.

## TRADE NOTES

**Medical Supplies for Empire Games.**—Evans Medical Supplies, Ltd., have provided the medical supplies for the British Empire and Commonwealth Games, Cardiff, July 18-26.

**Silicones.**—R. W. Greeff & Co., Ltd., 31 Gresham Street, London, E.C.2, are United Kingdom distributors of the Rhodorsil brand silicones (fluids, emulsions, siliconates and water repellents) for cosmetics, pharmaceutical-glassware washing, ampoule water-repellent treatment, etc.

**Oils and Waxes.**—Arthur Brown & Co., Ltd., Bevis Marks, London, E.C.3, are sole selling agents in Great Britain for the products of Nederlandse Raffinaderij van Petroleumproducten, Haarlem, Holland, which include pharmaceutical and technical grades of petroleum jellies, liquid paraffin of various viscosities, white oils, sulphonates, etc.

**Honours Degree.**—Courses of training for the B.Pharm. (Hons.) degree of the University of London, as well as facilities for post-graduate work in the degree subjects, are offered by the School of Pharmacy, University of London, 29 Brunswick Square, London, W.C.1.

**Courses for B.Pharm.**—Courses of training for the University of London degree of B.Pharm. are available in BRADFORD at the Bradford Institute of Technology; in BRIGHTON at the Brighton Technical College; in LEICESTER at the Leicester College of Technology and Commerce; and in LONDON at Chelsea College of Science and Technology.

**Qualifying in Optics.**—Preparation for the Qualifying examination of the Spectacle Makers' Company, British Optical Association and Association of Dispensing Opticians, and for the D. Opt. qualification, are undertaken by the Northampton College of Advanced Technology, St. John Street, London, E.C.1.

**Qualifying in Pharmacy.**—Training institutes offering courses leading to the Pharmaceutical Chemist Qualifying examination of the Pharmaceutical Society are offered by the BRADFORD INSTITUTE OF TECHNOLOGY; BRIGHTON TECHNICAL COLLEGE; BRISTOL COLLEGE OF TECHNOLOGY; CHELSEA, London, COLLEGE OF SCIENCE AND TECHNOLOGY; DUNDEE TECHNICAL COLLEGE; HERIOT-WATT COLLEGE, Edinburgh; LEICESTER COLLEGE OF TECHNOLOGY AND COMMERCE; and PORTSMOUTH COLLEGE OF TECHNOLOGY.

**Entry into Pharmacy.** — Facilities for training up to the entrance requirements of the Pharmaceutical Society are available in BRADFORD at the Bradford Institute of Technology; in BRIGHTON at the Brighton Technical College, in BRISTOL, at the Bristol College of Technology; in DUNDEE at the Dundee Technical College; in EDINBURGH at Heriot-Watt College; in HUDDERSFIELD at Huddersfield College of Technology; in LEICESTER at Leicester College of Technology and Commerce; in PORTSMOUTH at Portsmouth College of Technology; and in ROTHERHAM at Rotherham College of Technology.

**Marketing Change.**—Shell Chemical Co., Ltd., announce that they have taken over from Shell-Mex and B.P., Ltd., the marketing of the company's paraffin wax. Inquiries may be addressed to divisional offices of the company or to its general chemicals department, 15 Great Marlborough Street, London, W.1.

**Plant for a Works Extension.**—A contract for the supply and erection of extensions to the Nottingham works of Boots Pure Drug Co., Ltd., has been awarded to W. J. Fraser & Co., Ltd., Romford, Essex. The plant includes a number of agitated stainless steel pressure vessels which are being designed by Messrs. Fraser and fabricated at their Barnsley works, some for completion on the site.

**Soda Syphons.**—Sparklets, Ltd., Queen Street, London, N.17, market the Hostmaster and Streamline soda syphons. The Hostmaster is available in old gold, dove grey, ruby or emerald colours, and is used by British European Airways, British Overseas Airways Corporation, by catering establishments, clubs and shipping lines. The Streamline has a chromium finish, with red, green or black relief.

**To Make Methyl Cellulose.**—The Nobel Division of Imperial Chemical Industries, Ltd., is setting up at Dumfries a plant to produce a wide range of methyl cellulose grades. The capacity of the I.C.I. plant and the range of its products will be sufficient to satisfy existing and anticipated United Kingdom demands for all grades of methyl cellulose. At present certain grades are imported from the continent of Europe.

**Rooms for Trade Shows.**—The Mayfair Catering Co. Group have set up, at Mayfairia Rooms, Bryanston Street, Marble Arch, London, W.1, accommodation suitable for trade shows or exhibitions. Two suites, each of approximately 2,800 sq. ft., can be partitioned if a smaller area is desired and a cocktail bar and a private room for business discussions are available. Inquiries are invited by the company's managing director.

**Lipsticks for British Women Athletes.**—At the sixth British Empire and Commonwealth Games, Cardiff, July 18-26, each of the fifty members of England's women's team will be wearing "Racing Red" (Coty 24) lip colour. The choice was made by the team's fashion coordinator. An acknowledgment to the manufacturers, Coty (England), Ltd., 3 Stratford Place, London, W.1, appears in the programme booklet of the Games.

### Bonus Offers

SAVILLE PERFUMERY, LTD., Rickmansworth Road, Watford, Herts. "Top-to-toe" fragrances. One Orange Blossom free with each doz. ordered.

UNIVERSAL LABORATORIES, LTD., 137 Sandgate Road, Folkestone, Kent. Daxaids. Twelve invoiced as eleven, plus display discounts of 10 per cent. on parcel containing 4 doz. rolls and 2 doz. cartons; and 5 per cent. on parcel containing 4 doz. rolls and 1 doz. cartons.

## NEW PRODUCTS AND PACKS

**Vaccine for Sheep.**—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the introduction of Trivexin brand braxy, blackleg and pulpy kidney vaccine for the vaccination of sheep in arcas where all three diseases are prevalent. Trivexin is available in bottle of 250 c.c. (fifty doses).

**Granules for Suspension.**—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex, are presenting their speciality Streptotriad (three sulphonomides and streptomycin combination) in the form of granules for preparing a suspension. The addition of 25 c.c. of water to the contents of the pack provides 1½ oz. of suspension. Streptotriad falls within Part I of the Poisons List and Schedules 1 and 4 of the Poisons Rules. It is tax-free.

**Antirheumatic and Antineuralgic.**—"German Ethicals" (proprietor: Eberhard Schaumburger), 56 Redbreast Road, Moordown, Bournemouth, are introducing to the medical profession the German-made speciality Nicopyron antirheumatic and antineuralgic tablets and suppositories containing in the tablets nicotinamide-1.5-dimethyl-2-phenyl-3-pyrazolone, 0.2 gm., and in the suppositories nicotinamide-1.5-dimethyl-2-phenyl-3-pyrazolone, 0.4 gm. It is claimed that Nicopyron can be taken for long periods without side effects. The container holds twenty tablets.

**Sun-screen Preparation.**—Lentheric, Ltd., 17 Old Bond Street, London, W.1, are marketing a new sun-screen preparation, Tweed Tan, an aerosol product in an attractive gold and brown



pack. The product is described as cooling, transparent, non-oily and incorporating an ultra-violet screen; it also contains an insect repellent. Tweed Tan does not stain clothes.

**Perfumed Beauty Soap.**—Goya, Ltd., Badminton Court, Amersham, Bucks, have formulated a modern beauty soap with a distinctive and pronounced perfume (instead of the mildly perfumed or unperfumed beauty soap usually offered). The Goya soap range has

been repacked in single-tablet cartons, and there are matching talc, perfume Cologne and perfume stick Cologne.

**Handbag Phials.**—Coty (England), Ltd., Stratford Place, London, W.1, are bringing out a handbag phial of the six most popular fragrances of Coty toilet water: L'Aimant, l'Origan, Paris, Chypre, Muguet des Bois and Le Nouveau Gardenia.

**Unbreakable Hair Curlers.**—Haetam, Ltd., 63 Corporation Street, Manchester, 4, are marketing what they describe as "the world's best and cheapest unbreakable (polythene) hair roller and curler," the Fabulo novelty curl foundations. The curler is in two sizes—for professional use by hairdressers and for home use. Distribution is through wholesalers or direct.

**Plastic Chest.**—Latest addition to the Twinco range of household plastics of Jarrett, Rainsford & Laughton, Ltd., is a chest (No. 173) in red, white or blue high-impact polystyrene with polystyrene shelves that can be divided into three compartments by means of removable slides. Provision is also made for tickets to be slipped into the shelves for labelling the contents. Now coming off the production line, the chest is likely to have an appeal as a Christmas present.

**Dual-purpose Deodoriser.**—Phillips Telescopic Taps, Ltd., Colliery Road, Birmingham Road, West Bromwich, Staffs, are the manufacturers of the Roma Rol combination toilet roll holder and deodoriser. The Roma Rol, a perforated metal cylinder containing a volatile deodorant, is constructed to act as "shaft" within a toilet roll. It fits any size of toilet-roll holder, being supplied with two removable adaptors for the purpose. In use it is, of course, "invisible."

**"Top-to-toe" Fragrances.**—Saville Perfumery, Ltd., Rickmansworth Road, Watford, Herts, have coined the title "Top-to-toe fragrances" for light matching versions of their full-strength perfumes. Saville's "Top-to-toe" is being presented in June, Mischief, Seventh Heaven, Tutu, and a new perfume: Orange Blossom (also offered as a full-strength perfume stick, although not yet as a handkerchief perfume). Mischief, Seventh Heaven and Tutu are also available now in full-strength perfume sticks in addition to June, which has been on the market since the summer of June 1957. "Top-to-toe" is packed assorted in dozens (four June, two Mischief, two Seventh Heaven, two Orange Blossom), and half dozens (same proportions). The perfume sticks are supplied assorted (three of each in display outer of 1 doz.). With each doz. are a display card and dummy container. The inclusion of the coat of arms of Queen Louise of Sweden on the "Top-to-toe" pack is a reminder that Messrs. Saville were in 1957 appointed purveyors to Her Swedish Majesty.

## INFORMATION WANTED

The Editor would appreciate information about:  
Dorco or Dawco atomiser,  
Derma-heal soap.

## BIRMINGHAM CITY ANALYST

### Report for first quarter of 1958

OF 224 drug samples taken by Foods and Drugs Act sampling officers during the first quarter of 1958, fourteen were referred back for explanation. A bottle of ammonia, on the label of which the ammonia present was given as 15 per cent.; contained only 11.6 per cent. The suppliers stated that the ammonia had been purchased twenty months previously; and their opinion was that the age of the article was the cause of the deficiency. On a second sample of ammonia the name and address of the seller did not appear on the label, as required by the Pharmacy and Poisons Act, 1933. A sample of compound of bismuth lozenges was 20 per cent. deficient of all three constituents. Many of the compound codeine tablets in a sample had split longitudinally and others had disintegrated. The tablets were withdrawn and the suppliers asked for their comments, the stock having been delivered only three months previously. The label on a sample of proprietary eye drops stated that the preparation contained 0.005 gm. of adrenaline chloride per 100 c.c.; none was present, and a second sample, taken a month later, was similarly deficient. A letter was addressed to the wholesale suppliers, who passed it to the makers. A reply is awaited. A carton of glucose, covered with testimonials to the value of glucose as food and medicine, was held to be "calculated to mislead" as to its quality, contrary to Section 6 of the Food and Drugs Act. The claims included: "it has been proved that the health of all adults and children can be greatly improved by eating less bread and potatoes and ordinary sugar and substituting" the brand of glucose contained in the tin; "children's ailments yield to glucose treatment"; "it helps to make good any diet deficiency"; "one of the most effective of all safeguards against travel sickness," etc. The packers proposed to discuss the question with the makers of the glucose, who had provided much of the technical literature on which the labels were based. The labels had been written some years ago. The packers were prepared to give full consideration to the analyst's objections and would submit a revised form of labelling.

#### Labelling Errors

The label of another sample of glucose claimed the presence of 1 per cent. calcium glycerophosphate. That substance was not included, and the term "dextrose" was incorrectly used. The manufacturing firm was asked for an explanation, and it appeared that the company's printing department had reprinted an old label. A copy of the label at present in use was seen and approved.

A sample of health salts, which was in a container rusty inside and out, was in a solid mass, did not effervesce with water, and contained dirty yellow particles. The remaining six tins in stock were returned to the manufacturers.

Of two samples of "influenza mix-

ture" neither was labelled with the ingredients and amount of each present, as required by the Pharmacy and Medicines Act, 1941. The retailer stated that his normal practice was to affix a small label carrying the printed formula. A sample of ammoniated tincture of quinine was 24 per cent. deficient of the 1 per cent. ammonia required. Another sample proved 62 per cent. deficient of ammonia. The pharmacist's supply was nearly five months' old and kept in a "shop round." A sample of salicylic acid ointment contained only 1.05 per cent. The ointment remaining in stock was analysed by the makers with the same result; it had been issued in September 1953. The makers had no record of assays before 1955 and were unable to account for the low result. In a sample of soda mint tablets many were chipped or broken. The tablets were in an original container bought from a reputable drug house.

Instead of the 7-8 per cent. of zinc

oxide it should contain, a sample of zinc and castor oil cream, B.P., contained 8.3 per cent. The explanation offered was loss of oil, either from leakage or from absorption by the cap lining.

A well-known brand of glucose cordial was suspected by its purchaser to have been responsible for the illness of her children. Though the doctor was unable to persuade her to the contrary, "needless to say the drink was blameless."

#### "Boot-polish" Mascara

A proprietary preparation of finely divided metallic silver (strength 2.5 per cent.) was advertised as a cure for colds, catarrh, etc. A tube containing black mascara proved to have the same composition as boot polish, the chief ingredients being carbon black and turpentine mixed with fatty material. A proprietary insecticide spray used by the Public Health inspectors' department was suspected of having caused heart trouble, and it was found to contain about 4½ per cent. commercial DDT and 5 per cent. cresols dissolved in kerosene.

## PHARMACEUTICAL SOCIETY

### Meetings of the Scottish Department Executive

TWO meetings of the Executive of the Scottish Department of the Pharmaceutical Society were held in Edinburgh on June 11, Mr. J. B. Grosset in the chair. One meeting was held before and one after the annual meeting of members of the Society resident in Scotland.

The scrutineers' report indicated that Miss Jenkins and Messrs. Cowan, Cowie, Culbert, Gauld and Keith had been successful in the recent election of Executive. Mr. C. G. Drummond, who had been nominated, had not sought re-election. Voting figures were:—Keith, 348; Cowie, 347; Culbert, 344; Gauld, 309; Jenkins, 291; Cowan, 281. Of 2,922 voting papers issued, 766 were returned, five of which were informal and ten too late to be included. Twelve candidates stood. A welcome was extended to the new member of Executive, Mr. A. Cowan, at the second of the Executive's meetings, and pleasure was expressed at the re-election of Miss Jenkins, and Messrs. Cowie, Culbert, Gauld and Keith.

Mr. W. A. Park suggested and it was agreed, that a letter should be sent to Mr. C. G. Drummond, expressing appreciation of his services during his fourteen years' membership of the Executive.

Mr. J. B. Grossett, Edinburgh, was unanimously re-elected *chairman* and Mr. A. Officer, Glasgow, was unanimously re-elected *vice-chairman* of the Executive.

It was reported that the resident secretary (Dr. G. H. Macmorran) had presided at a meeting of Scottish Branch secretaries on June 11. Arrangements had been made for headquarters speakers to be available to address two or more branches at one visit. It was agreed that the Scottish Department should issue copies of a circular on the Benevolent Fund to Scottish Branch secretaries for distribution to

members, as had been done for the past two years. It was reported that the chairman had addressed the annual meeting of the Northern Scottish Branch at Dingwall on May 28. The chairman said he had been impressed by the large percentage of members who had attended the meeting, which he had addressed on the subject of "Town and Country."

#### Evening Scientific Meeting

The resident secretary intimated that arrangements had been made for the inaugural meeting of the 107th session of evening scientific meeting in Edinburgh as follows:—November 14, Professor Alexander Kennedy (department of psychological medicine, University of Edinburgh).

Since the previous meeting of the Executive no "students" had been registered in Scotland. The total registered this year amounted to twenty, so far, said the secretary.

#### Education and Examinations

Dr. Macmorran reported that on June 7 he gave a talk in Stirling to the Scottish Branch of the National Association of Youth Employment Officers on pharmaceutical education. He was pleased at being invited to that meeting as there appeared to be a number of misunderstandings about the Society's entrance qualifications and a suspicion that Scottish students were being more hardly dealt with than students in England and Wales. He believed he had removed that misunderstanding. At the invitation of the chairman, Mr. Cowan briefly described the scheme which the Stirling Branch were starting whereby pharmaceutical students in the Branch area would be "attached" to a local pharmacist throughout their pharmaceutical training, thereby extending their opportunities for experience.

## PHOTOGRAPHIC NOTES

**Agents Appointed.**—Hanimex (U.K.), Ltd., have appointed two new agents and distributors for their range of photographic equipment: J. R. Gibbs, Ltd., Manor Avenue, Paignton, Devon (distributors); and Boileau & Boyd, Ltd., Bride Street, Dublin, C.7 (who become the sole agents and distributors in Eire).

**Cleaning Cloth for Cameras.**—Hargo Photographic Accessories (proprietors, Hargo, Ltd.), 108 Horseferry Road, London, S.W.1, are marketing a new product, the Dustmaster cleaning cloth, designed for cleaning the inside of cameras, projectors, processing equipment and enlargers (but not for camera lenses). The cloth is used with a light dusting movement on non-glass parts, not for polishing glass parts, for which it is unsuitable.

**Summer Rates for Film Treatment.**—During the summer months the G.B. Film Library, Perivale, Middlesex, is offering a specially reduced rate for its film-treatment services (removal of scratches, cleaning and inspection, re-making defective splices, wax protection, removing brittleness and curling, and replacing front and end leaders. The services apply to both colour and black-and-white films). A guarantee is given to return serviced prints within fourteen days.

**Colour Slides.**—Pullin Optical Co., Ltd., 93 New Cavendish Street, London, W.1, are marketing a series of colour slides, "Britain in Colour," with fully illustrated book for each set. With every first order for an assorted quantity of twelve books, a stand with eight colour transparencies is issued to dealers on free loan. The titles are: London, The Tower of London, Westminster Abbey, The Shakespeare Country, Scotland, The Lake District and Woburn Abbey.

**Increased-speed Colour Film.**—Ferranacolor reversal film labelled "increased speed" is now available from Neville Brown & Co., Ltd., 77 Newmarket Street, London, W.1. The daylight film has been tested for the C. & D. with the Weston Master exposure

meter set at 16 instead of the former 8 (other ratings 15/10 DIN, or 25 Sch.) and exposed on normal subjects in full sunlight. The film was afterwards processed in a home processing kit (Johnsons of Hendon, Ltd.), working precisely to the directions contained in the kit. Some of the exposures were varied (upwards and downwards) to allow of comparisons being made. In each case the result obtained when using the new faster speed rating was the best, though the others were also quite acceptable. In the correctly exposed transparencies the shadows were luminous and the colours were accurately rendered and pleasingly brilliant. The makers state that the saturation and brilliance of colour, as well as colour stability during storage and for processing variations, are remarkably improved. The film is available in 35-mm. cassette and refill and in F20, 620 and F27 sizes.

**For Roll-head Printers.**—The new Varitex and Varitex Rapid papers of Agfa, Ltd., 27 Regent Street, London, S.W.1, are the first papers manufactured by the company in roll form for roll-head printers. The characteristic curve has been lengthened to make the contrast softer, so taking care of thin, contrasty/dense negatives and normal negatives on the one strip. Tests with the new papers have borne out the makers' claims, both in Varitex, a paper for contact and one-to-one printing by projection, and in Varitex Rapid for projection printing. The paper may be obtained wound "emulsion out" or "emulsion in" according to the design of the printing machine. The paper has a new fluorescent agent incorporated, and that provides extreme whiteness. The gelatin used for the emulsion is stated to be of a new type, contributing to easy and good glazing, and prolonged tests have shown that an excellent glaze is obtainable without any special precautions. The speed of the Rapid paper was found to be roughly half that of the type of bromide paper normally used. The contrast grade is spaced between Soft and Special. Rolls are in 2½-in. and 3½-in. widths, and in 250-ft. and 500-ft. lengths.

**Colour Viewer.**—The new Australian-made Argus Colorviewer of Hanimex (U.K.), Ltd., 345 City Road, London, E.C.1, is suitable for use with both 2¼ x 2¼-in. and 35-mm. colour transparencies. It becomes available at the end of July. The Colorviewer uses two U2 batteries and has a two-glass optically corrected lens. It gives a large picture yet is compact



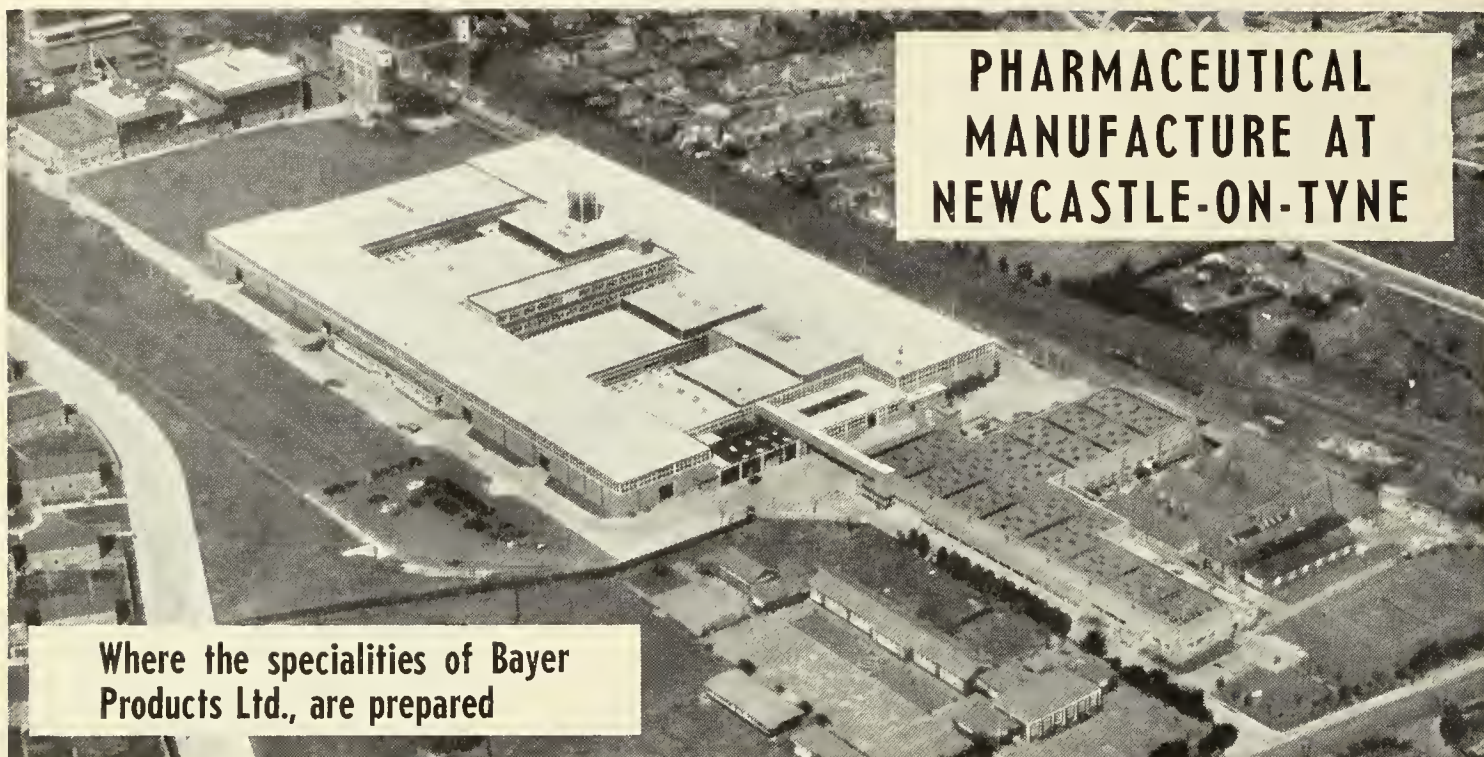
and easily handled, measuring approximately 5 x 3½ x 6½ in. high overall and weighing about 1¼ lb. The housing, with single-screw fitting, is constructed from a high-impact plastic in two shades of green. A plastic adaptor for 35-mm. transparencies is part of the standard kit. The on and off positions of the lighting system are controlled by a button mounted on the slide carrier (depressed for illumination, released when light not required). On release the slide, under slight spring pressure, is pushed up into position for easy removal. The large open screen and design of the Colorviewer make it suitable for use as a table or as a hand model. Available as an optional extra is a mains adaptor for standard a.c. voltage.

**35-mm. Projector.**—The Gnome Alphas 35-mm. projector now being marketed by Gnome Photographic Products, Ltd., Caerphilly Road, Cardiff, is a precision-built instrument that embodies the latest improvements in projector engineering. The entire optical system is mounted on twin parallel steel rods, ensuring rigidity, maximum life and long efficiency. Because of its matched optical system of deep-curve aspheric and biconvex condenser lenses, f/2.8 Gnome Maginon lens coated on all glass/air surfaces, and wide-angled reflector, the projector gives brilliant results. The 300-watt model is converted to the 500-watt model simply by inserting an extra heat-absorbing filter in space provided and changing the lamp. A powerful blower, displacing more than 500 cu. ft. of air per minute, keeps the instrument cool and directs a stream of air over the transparency. Chance heat-absorbing filters are fitted as standard. The Alphas is designed for use on a.c. mains 210/250-volts supply. The slide carrier, of heavily chromed steel, gives an exceptionally smooth action. Adequate tilt adjustment is provided.



**FORTY-EIGHT YEARS LATE BUT STILL VIABLE:** Discovered by the Fuchs Transantarctic Expedition of 1957-58, the film shown at left with its metal container had been jettisoned by the Scott Expedition of 1910. The film was marked "Develop before 1st May 1911," yet it produced, among other photographs, the right-hand picture, in which Sir Vivian Fuchs and the Expedition's photographer are seen standing in front of the Captain Scott statue.





## PHARMACEUTICAL MANUFACTURE AT NEWCASTLE-ON-TYNE

Where the specialities of Bayer Products Ltd., are prepared

ONE way of measuring the gap that now separates Bayer Products, Ltd., Kingston-on-Thames, Surrey, from its German origins, from which it cut completely adrift in 1939, is to examine the company's 1958 price list. Of fifty-four trade-marked medicinal specialities catalogued in that list no less than twenty-four have been launched since that date and owe nothing to Leverkusen. Another is that the company has embarked upon an active campaign (which has made a most promising start) to market its new and distinctive products in Western Germany, as well as to other European markets. To be able, within less than twenty years, to put that bold policy into operation, the company has had to build up a large and efficient manufacturing organisation. Smaller factories at West Molesey and Byfleet in Surrey have

been discontinued now that a large new factory at Newcastle-on-Tyne is able to cope with the whole of the manufacturing requirements of the company and its export associate Winthrop Products, Ltd. The factory, which occupies the greater part of 22 acres on the Gosforth side of Newcastle, is operated by a specially created company, Winthrop Laboratories, Ltd., which also manufactures for Scott & Turner, Ltd., and Chas. H. Phillips Chemical Co., Ltd. It comprises a 35,000 sq. ft. chemicals plant; an immense concrete building (350 ft. x 580 ft.) that accommodates development, control and research laboratories, offices, a raw materials receiving department, finished products warehouse and—most important, of course, of all—pharmaceuticals factory; tin-box factory and printing works.

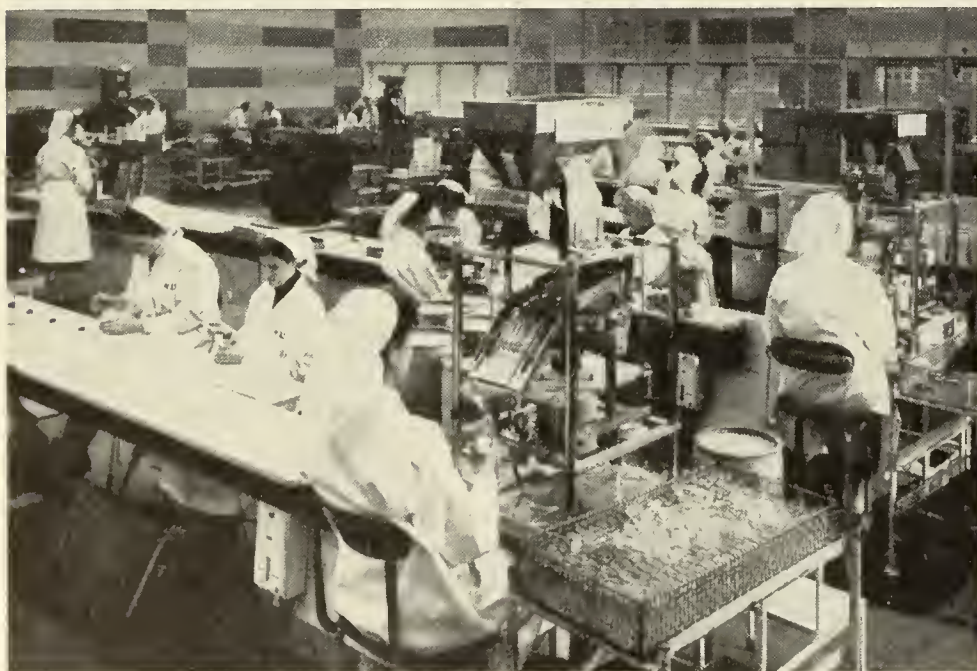
There is a close association between the Newcastle unit and the Bayer Biological Institute at Exning, Suffolk, where vaccines and sera are made and biological research facilities are available. The organisation also benefits in the development of new drugs by its international connections and, in particular, by work carried out at the Sterling-Winthrop Research Institute at Rensselaer, New York, U.S.A.

### Chemicals Plant

In the chemicals plant, which is situated at one end of the site, are made the active ingredients for many of the preparations marketed by Bayer Products, Ltd. For some of them special and even unique production processes have been devised. Examples are the x-ray contrast media and analgesic and antispasmodic specialities of the company. The plant is divided into two main sections: "intermediates" and "fines." Many preparations have the same intermediate product at some stage in their synthesis, and the maintenance of stocks of those "intermediates" enables the manufacture of the end-products to be undertaken by the "fines" section and if necessary to be switched at short notice. There is also a pilot plant in which small runs can be made or trial processes performed.

Process development and control laboratories are responsible at all stages in manufacture for the quality of all final products. A special building is devoted entirely to the manufacture of the Bayer preparation of ferrous gluconate. That product is prepared to contain at most 0.375 per cent. of ferric iron, against the pharmacopœial maximum of 1 per cent. To maintain that standard demands special plant. The raw materials are selected and checked before synthesis, and tests are carried out at every stage to the final tablet-coating and packing.

The pharmaceuticals factory and administrative departments have been laid out in an unusual but most logical arrangement designed after careful



Part of the tablet-filling section, with one of a variety of counting machines in the foreground.



**Left:** Part of a tablet compressing room, with each machine in its own subsection.  
**Right:** Assembling Neophryn sprays at the head of the spray filling line.

planning by the company's works study team. The factory is fairly claimed to be one of the most modern of its kind in the world. Raw and packaging materials arrive on the north side of the building and the flow of work is then in a direct line through the appropriate manufacturing and processing sections into the finished goods warehouses on the south side of the building. That principle is, of course, well known, but here the various blocks of the factory are separated by gardens that act as "light-wells," and the central block has three floors, the ground floor housing functions to which the factory operatives require direct access (*personnel*, medical and wages departments, warehouse receiving and despatch offices). On the first floor are materials control, production planning, buying, works study and quality control offices. The top floor is devoted almost entirely to control and product development laboratories.

#### Tablet Block

Programmes are arranged so that the manufacture of a batch of tablets takes one month, fourteen days being allowed for the tablets to pass through the control laboratories before packing can take place. Within the month about 65 million tablets are granulated and



**Counting coated tablets electronically into bottles.**



**Filling dental cartridges in an aseptic room at positive atmospheric pressure.**

compressed. Stocks of tablets, controlled or waiting for control, are kept in stores between compression and packing departments.

The production of tablets may be divided into four stages: dispensing, granulating or slugging, compression, and final coating. Each manufacturing order is initiated by the issue of a photo copy of the master formula. It shows exact details of the amount of each ingredient to be used, its batch number, and detailed manufacturing instructions. The ingredients are weighed out by a dispenser, checked by laboratory staff, and transferred to the granulation rooms (two reserved for poisonous and two for non-poisonous materials). The ingredients are checked for weight and identity and then placed in the mixer, emerging as coarse granules. After drying, the granules are passed again through the rotary granulator, using a smaller wire mesh, and mixed with lubricants and disintegrants. The drug granules are fed into a rotary or single-punch tablet machine, depending on the size of the batch, and each machine is in a separate cubicle. The tablet maker is responsible for seeing that the machine is correctly set to produce tablets of the required uniform weight, thickness, appearance, disintegration characteristics and hardness.

After the tablets have been passed by the control laboratory, they are packed into containers by Russell vibratory machine or King electronic counter. The latter counts up to 1,800 tablets a minute and can be set to count any number between five and 1,000 tablets into any given container. The filled bottles pass down a moving belt to be labelled and finally cartoned. The department also packs tablets in a variety of cellulose and other films.

#### Ampoules

Glass containers for the company's ampouled products are washed in detergent and water and rinsed in distilled water before sterilisation. Rubber closures are cleaned in domestic washing machines. Tubes for dental anaesthetic cartridges are checked by an electronic sorting-machine, which grades tubes into five sizes based upon internal diameter. Plungers for the tubes are inserted in machines that can produce up to 2,000 tubes per hour. All components, after cleansing or assembly, are sterilised by passing through an autoclave or oven fitted with doors at both ends to enable unloading directly into the filling department.

The sterile solutions are prepared in borosilicate flasks or glass-enamel lined tanks, designed to facilitate heating with steam or cooling with water. Provision is also made for the circulation of refrigerated brine to maintain products at low temperatures, and so prevent the growth of organisms between the time of manufacture and filling. Freshly distilled water is fed by gravity from stills on the floor above to the points at which it is required, chemical and bacteriological tests being carried out daily to ensure that it complies with the required standard. Solid ingredients are dissolved by a high-speed stainless steel mixer, and, after suitable adjustment of pH, passed through horizontal plate filters. Samples of all solutions are submitted to the control department. They are not passed to the filling section until a certificate of release is issued.

Filling is carried out in a sterile area, isolated from the rest of the department by air-locks. Filtered air is pumped in to maintain a positive pressure and the air is further treated by ultra-violet lamps. A check is kept on bacterial content by daily exposure of agar plates in the area. Only the opera-

tives employed in the filling department are allowed to enter, and they do so through an air-lock where they change into clean overalls and shoes. Compounded solutions that have passed all control tests are passed to the filling department through one of the air-locks, to be filtered, sterilised and filled into sterile containers. Conveyor belts carry filled containers to the packing room and as an appreciable length

of the conveyors is outside the sterile area the surface of the belt is cleaned with nylon brushes and irradiated with ultra-violet lamps before it passes back into the filling department.

In the factory bright colours and modern lighting methods are used to increase the efficiency and comfort of personnel.

About 30 per cent. of the products of the factory go for export.

his attitude to estate agents who no doubt pester him on behalf of multiples who are prepared to offer extremely large sums for his site?

INTERESTED

### Unpaid Pharmacists?

SIR,—My thirtieth year in the field of pharmacy happened to coincide with the tenth anniversary of the National Health Service, and to assist in my nostalgic reminiscences I read the Health Minister's anniversary message (*C. & D.*, July 12, p. 36), in which he acknowledged his debt to everyone concerned from doctor to delivery boy, including kitchen staffs and porters. Whilst enjoying no more statutory recognition than the last-named, I was astonished to note that no mention was made of the dispenser, on whom, surely, the success or failure of the Health Service largely depends. One pertinently wonders whether the Minister is under the same misguided apprehension, as indeed the public are, that the pharmacist and dispenser are one and the same person. In practice of course, the converse is far more accurate. The dispenser is the unpaid pharmacist. It is he who is the purveyor of proprietaries, the "dispenser" of doctors' directions, the proficient pill counter and label changer (p. 39). No wonder the "keen young pharmacists with university degrees are disillusioned." Their academic training and knowledge could be put to far better use in the higher faculties of pharmacy, while the long-experienced dispenser should be given justifiable recognition of his duties in retail practice. What a happy birthday it would be for all concerned. I for one could discard my well worn "L" plates and proudly wear one of "Elder Brother's" badges (p. 34). I regret the necessity to ask you kindly to withhold my name and address.

LABEL CHANGER

### Appreciated

I SHOULD appreciate if you could let me have a copy of the splendid issue of June 28, which as usual is most interesting to me.—*C.H.S.*

I AM now retired (shop closed) but would still like to get the *C. & D.*, as it is far the best of chemists' journals. I have been receiving the *C. & D.* for fifty-eight years.—*A. S. Galloway*

IT is always both pleasant and profitable to read the *C. & D.*, and, I thought, even more so after I'd read the Annual Special Issue. That issue surpassed all previous issues, the excellent standard has come to be looked upon as normal. The articles on the plague and "4000 years of Infant Feeding" were of great interest, while the tablet identification tables were of utmost value to me in the dispensary. I know this will be invaluable in every pharmacy to help in the identification of branded tablets. It will be useful to many general practitioners too in ordering their nostrums "as before." I must congratulate the editor and all the staff for this wonderful publication which is without doubt the No. 1 periodical for pharmacists.—*Budding pharmacist.*

## Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

### Two Grades?

SIR,—An elderly lady handed me a private prescription for a mixture. After copying, dispensing and pricing it, I took it over to her. Much to my surprise she produced a National Health Service script for exactly the same medicine, and remarked that she had given me the private prescription first, as she thought it would be dispensed with better ingredients than the N.H.S. one.

DI-SPENSER

### Manufacture Going Up, Not Down

SIR,—We are receiving reports from some of our wholesale customers that their representatives have gained the impression that this company, Stafford Allen & Sons, Ltd., is discontinuing the manufacture of galenicals. It is thought that some confusion with another company may have arisen in the minds of some people. As you well know, we are so far from discontinuing the manufacture of galenicals that we are geared to increase our output. Could this be made plain in your columns?

STAFFORD ALLEN & SONS, LTD.,  
London, N.1

[We would refer readers to an account of the company's galenical manufacture at Long Melford, Suffolk, published in the *C. & D.*, November 23, 1957, p. 565.—EDITOR.]

### Categories and Prospects

SIR,—Is pharmacy a trade, an occupation, a vocation, or a profession? The question was recently put to me by a parent who was choosing a career for his daughter, aged seventeen. My reply was briefly:—

1. RETAIL PHARMACY is primarily a trade—it means serving behind a counter in a shop;
2. HOSPITAL PHARMACY is a vocation—poorly paid and without over-many prospects of promotion;
3. INDUSTRIAL PHARMACY is a rapidly growing, well-paid profession, with plenty of scope, good salaries and promotion, and excellent working conditions (staff canteens, pensions, sports grounds, forty-eight hour week);
4. RESEARCH IN PHARMACY is a profession well paid at the top but drudgery at the bottom.

All branches demand years of study with a high degree of training and the salaries are poor in comparison with kindred professions (dentistry, optics, medicine) except in the "top drawer" of industry and research. Is that a fair summing up?

AN ELDER M.P.S.

### An Appointments Bureau

SIR,—The sales manager's difficulties and problems are many, but perhaps the most important of them is recruiting the right type of commercial traveller or agent when a vacancy occurs. It is, therefore, opportune to draw attention to a new service which this Association is offering to employers—a service that is not only free of charge but speedy and effective. The appointments bureau of the Association has recently been reorganised, and is now in a position to effect immediate introductions to suitably qualified and experienced applicants for any trade, in any area, and for any specialised requirement. Vacancies are placed immediately before such men, and an undertaking is given that the vacancies will not be circulated to all and sundry (thereby obviating the disadvantage of applications from a large number of completely unsuitable and unqualified applicants). This comparatively new service has already been used by an increasing number of employers of commercial travellers, who have already seen the great advantage of the system.

JOHN MAGUIRE, *Secretary*,  
UNITED COMMERCIAL TRAVELLERS'  
ASSOCIATION,  
180 Tottenham Court Road,  
London, W.C.1.

### Site Values

SIR,—Can we know more, please, about the chemist referred to by "Independent" (*C. & D.*, June 21, p. 660)? It is not enough to have an efficient staff and a well-run pharmacy. What about outside influences? Do the neighbouring multiples sell chemists' lines? Are customers allowed to park outside? How near are his chemist competitors, private and multiple? And is there direction of patients to a particular multiple? Business is not static, but has to be increased to meet increased overheads and lower profits. How did "Independent" improve business? The nearby multiples raised the value of his property and probably doubled his rates. A Nielsen report (see *C. & D.*, April 28, p. 451) mentions good business in electric blankets and dog foods; but are these chemists' lines? Does "Independent" have capital to modernise his business and to withstand such losses as dead dispensary stock, or larger losses such as the recent drop in purchase tax? "Independent" mentions "quality," but quality usually means higher prices, and increasing numbers of customers are becoming price-conscious. Last but not least, what is

# CONFERENCE VISITORS' LLANDUDNO

What the North Wales resort  
has to offer

**N**OT the least of the amenities of Llandudno for pharmacist visitors later this year will be that the current chairman of its urban district council is also the chairman of the Conference Local Committee: Mr. H. Neville, M.P.S. It is noteworthy, too, that an ex-mayor of the neighbouring Colwyn Bay is the vice-president of the Pharmaceutical Society of Great Britain. The special interests and predilections of pharmacists are therefore likely to be understood, met and even anticipated at Llandudno to a degree exceptional at Conference meetings.

Quite apart from those special considerations, however, which are coincidental, Llandudno has become in recent years a favoured centre for conferences of all kinds and sizes, and in laying itself out to attract and cater for them the town and its people have acquired a good deal of know-how, from which the British Pharmaceutical Conference meeting will derive full benefit. In a town with a resident population of 17,000 it could be expected, and it is indeed so, that the local organisers know on terms of personal friendship the civic officials, the lessees of halls and meeting-places, the caterers and the managers of transport undertakings in a way that is less likely in larger towns. On the other hand the fact that the population is swollen in a good summer to 100,000 is a guarantee that the townspeople

have no opportunity to become parochial or lose touch with the outlook of visitors from many backgrounds, some widely different from their own.

The local publicity association, which is an old-established private enterprise body not directly connected with the local authority (though it is accommodated in the Town Hall) can give any interested visitor a "break down" of the number of holiday-makers coming from each part of the British Isles, and the figures show a remarkably wide and even coverage from the South, Midlands and North. Visitors from the Principality itself may seem, by comparison, fewer, a fact for which the difficult road and rail communications within Wales must be held principally responsible.

## *Acoustics and Amenities*

Halls for the various sessions and functions are apt to be taken for granted at a Conference centre, but should they be? Not invariably is every speaker comfortably heard at every Conference Session. At Llandudno the professional and some science sessions of the Conference are being held in the town hall, where the acoustics are good, except (a warning to latecomers!) under the balcony at the back. The other science sessions are being held in comfortable luxury in the ballroom of the Grand Hotel, a Llandudno landmark that towers above and seems almost to stand upon the pier, and which is so closely associated with the pier that its bow-fronted projecting first-floor restaurant is supported on metal columns that might almost have been left-overs after the construction of the pier itself was completed.

The opening and closing sessions of the Conference are being held in the adjacent Pier Pavilion, usually in the season in occupation for the presentation of stage performances and therefore to be assumed good for its Conference function.

"Old hands" at Conference meetings will value the compactness of Llandudno as a meeting-place. The hotels of the town are for the most part on the promenade (where are no shops or kiosks) so that friends and acquaintances will also be, for the week of the event, near neighbours. From any of the hotels to any of the meeting places is easy walking distance—and not only easy but pleasant, with the sea to look out upon and the mountains for background. Within almost equally easy reach of the hotels are the recreation ground and the golf course at which the events of the afternoon of sport have been arranged to take place.



Round Great Orme's head is a magnificent one-way Marine Drive.

## CONFERENCE LOCAL OFFICERS, 1958



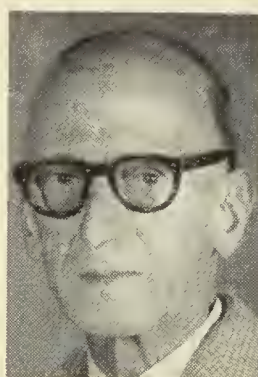
Mr. H. Neville,  
Chairman



Mr. E. Fearnhead,  
Vice-chairman



Mrs. M. Cross,  
Chairman, Ladies' Committee



Mr. H. Griffiths,  
Treasurer



Mr. M. H. Thomas,  
Secretary



The pharmacy with the name "H. Neville, M.P.S." over the door at 43 Queen's Road, Craig-y-don, a residential area to the east of the original town centre, was opened in 1921 and taken over by Mr. Neville in 1940. It is one of two businesses conducted now by H. Neville (Chemist), Ltd., the directors of which are the chairman and secretary of the Conference Social Committee. Mr. Neville recently became chairman of the urban district council.



During its lifetime the 68 Mostyn Street pharmacy of Blades Chemist, Ltd., established in 1865, has carried a succession of names on its facade. Immediate predecessor of the present one was Cocker. The records show that in 1880, on the death of her husband, a Mrs. Sinclair, herself a pharmacist, continued in active control for many years. One of the present partners (Mr. Eric Fearnhead) is vice-chairman of the local Conference Committee. A feature of the pharmacy is its four brilliant carboys set against an aperture in the wall that separates shop from dispensary.

Compact as Llandudno is, it is not on that account circumscribed. Any visitor who wants to take time off from the serious business of the week has unrivalled scope for motoring, climbing, walking, golfing or just sitting (and it is one of the characteristic features of Llandudno that its city fathers have provided one line of free seats along the whole length of the promenade). Though there are no shops on the promenade they are not far away, the principal shopping thoroughfare (Mostyn Street) lying parallel to but set back a few hundred yards from the promenade. In Mostyn Street or its continuation—or only just off them—are seven out of the ten pharmacies of Llandudno. Some of them are depicted on these pages. It would be quite a stimulating, worth-while and by no means long-drawn out round of calls for the Conference visitor to call at each in turn. Each has a distinctive character, unspoiled by excessive competition from the multiples, of which only one is represented at Llandudno. In not many towns can so many and such varied pharmacies be seen in so short a time and within so short a distance.

In a brief look at the town's amenities, regarded entirely from the viewpoint of a Conference visitor, there is no call



The 3 Mostyn Street Pharmacy of H. Neville (Chemist) Ltd., is noteworthy for having still in its frontage a glass panel worded "soda water manufacturer"—relic of a time when water was bottled and aerated in its basement. Around the top of the trim wall fixtures are a remarkable collection of no less than forty-six black flasks that once contained (not all are empty even today) liquid galenicals in use in the business. Above eye level the traditional appearance of the pharmacy, with its shelves of shop rounds, is preserved. On the lower shelves, and on the counters, both the stocks and the displays are very much of the present day, and the combination of past and present is most happy in its impact on the customer. In control at the pharmacy is Mr. M. H. Thomas, M.P.S., the Conference local secretary.



The century-old pharmaceutical business of Edwin Hooson, Ltd., 98 Mostyn Street, was once a department of a large grocery business that has not survived to the present day. In 1904 the pharmacy, having dwindled as an independent business, was acquired by the then proprietor of the grocery business, and from 1913 was managed by his son, Mr. Edwin Hooson, M.P.S. (chairman of the present limited company) who, with the assistance during the past twelve years of his own son (Mr. W. E. Hooson, M.P.S.) has conducted the business ever since. The pharmacy is notable for its wide front and spacious, lofty interior, almost cubical in shape. It is richly stocked with cosmetics, including many exclusive agency lines, and, like most other Llandudno pharmacies, has a thriving photographic department.

to duplicate information already set out in every guide book, but one unique "amenity" may be mentioned as it may have an appeal to the "botanist *manqué*" who survives within the breast of many a practising pharmacist. The Llandudno flora is something quite special. It is claimed to surpass in number and variety of species the flora of any other area of equal extent. One plant, the *Cotoneaster vulgaris*, is found on Great Orme's head and nowhere else in the British Isles. A feature of the Great Orme flora, too, is that it includes a relatively large number of plants formerly



Refitted throughout less than twelve months ago, the pharmacy of Pickering & Sefton, 79 Mostyn Street, is attractively modern in its compact layout. Mr. E. Pickering, now a director of the company, has been one of the proprietors since 1951.

gic to many botanically minded pharmacists present.

Intending visitors should be warned not to be misled by the guide-books on one proud feature of their contents. During Conference week it will not be possible to arrive at or depart from Llandudno pier by boat, for the season of the steamers will have ended before the Conference starts. It must be borne in mind that Llandudno is a seaside resort wholly dependent for its prosperity on holiday-makers, and a Conference booking of several hundred members has naturally to be arranged after the main holiday season. However, as the town has at Christmas an echo of its summer invasion, holiday weather may be taken to have a rather longer duration than the official "season." Statistics prove that Llandudno is on average warmer in winter if cooler in summer than most other British seaside resorts. September time should therefore, by calculation, be entirely equable for temperature.

Pharmacists who have already been to Llandudno will need little prompting to recollect its advantages. Those who have not yet been to a pharmaceutical Conference in any town will, by the same token, find this year's meeting-place an exceptionally suitable place at which to become acquainted with it. The regulars, the backbone of the Conference, may rest assured of an agreeable and memorable setting for their 1958 outing.

## A PHARMACIST'S ANTHOLOGY SECRET COSMETIC FORMULAS

From *The Three Lives of Harriet Hubbard Ayer*

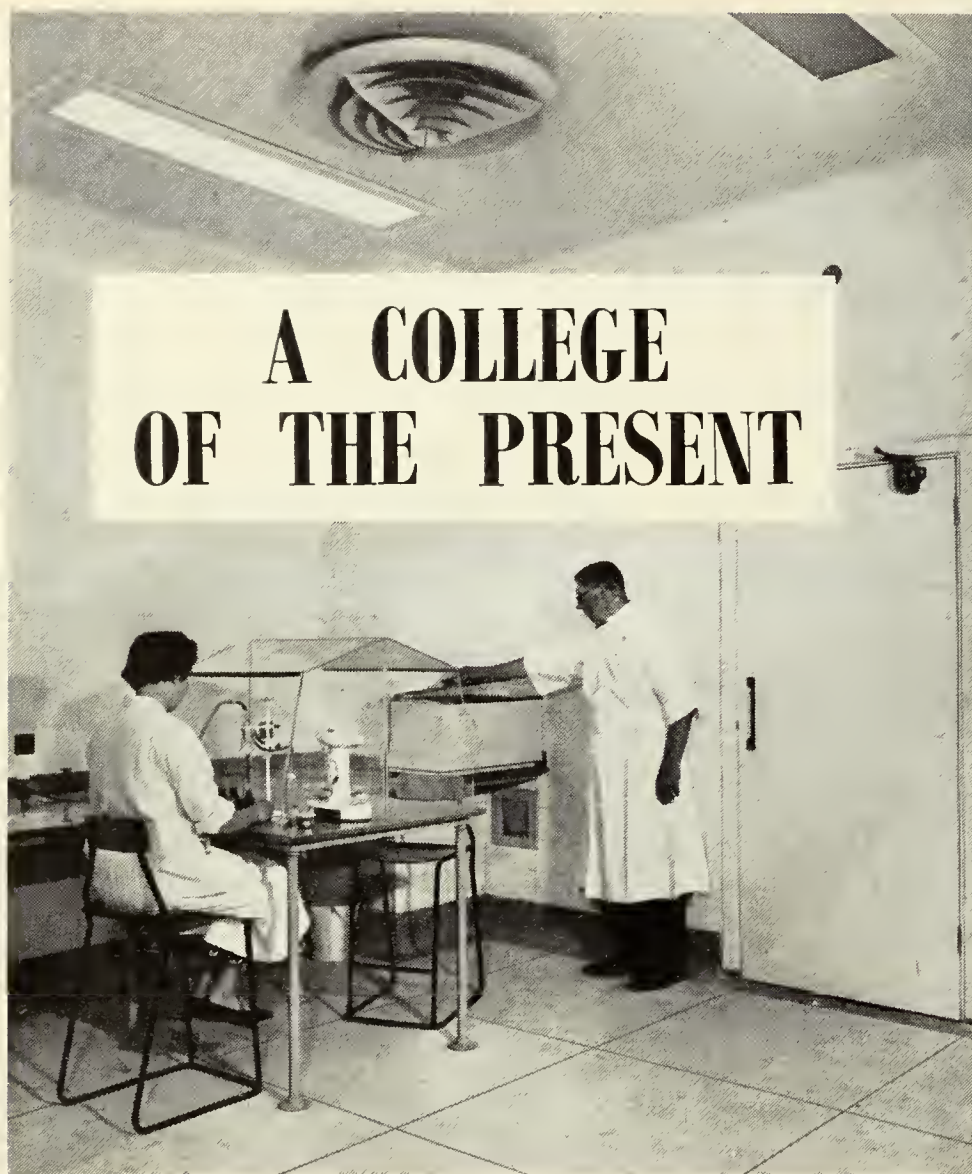
by Margaret Hubbard Ayer and Isabella Taves

ON one such trip, she found a tiny chemist's shop on the Boulevard Malesherbes, where the proprietor, with the assistance of his wife, made his own perfumes and unguents. Harriet talked to him for a long time and he, like John V. [her father-in-law], was impressed by the fact that this beautiful young woman asked questions because she was really interested and listened to the answers. He took her to the back of the shop and showed her his laboratory, which doubled at meal-time as the dining-room, and his stock of essential oils. Together, they worked out a Parma violet perfume for her, which became another of Harriet's lovely trade-marks. He told her stories of the old days, when his father and grandfather had mixed creams and rouges and powders for the most famous ladies of the land, many of them by secret formulas.



valued for their real or imagined medicinal value, including rue, dropwort, madder, henbane, wormwood, fennel, hemlock and vervain. A Conference paper on that aspect of Llandudno—however unlikely—might be pleasantly nostalgical.

The pharmacy of K. N. Horniblow, Ltd., 4 Queen's Buildings, Clonmel Street—recently acquired by Mr. H. J. C. Walton from Mr. T. Bentley (its owner for the previous fifteen years) and converted into a limited company—was founded by Miss Kate Horniblow, who established an outstanding pharmaceutical business and a formidable local reputation—especially, it is understood, among the doctors. A feature of the pharmacy is its elaborate ironwork sign, while the insistence on the description "pharmacist," common enough today, was unusual at the time the fascia was installed.



## A COLLEGE OF THE PRESENT

**M**OVING a laboratory stock of drugs, chemicals, apparatus and records from an old to a very new building is a major task requiring careful forethought. Forethought of that kind, and close attention to detail are exemplified in the new department of pharmacy at Birmingham. The laboratories, situated on the top floors of the massive new College of Technology, command an unusually fine view of that sprawling industrial city.

The chemical emphasis shown in current research on vegetable drugs may have been the factor that brought the pharmacognosy and the pharmaceutical chemistry laboratories close together in the new department. They are arranged so that service from a chemical and apparatus stock room is readily available to both laboratories through service hatches. The two laboratories are each handsomely equipped, and at each student's bench there are gas, electric and vacuum points. Numbered drawers in the pharmacognosy department take care of the stocks of most crude drugs. The remainder are in glass containers in glass-doored cupboards.

The equipment for pharmaceutical chemistry is well up to the standards required by today's studies, with even some additions. A notable item of apparatus is the Baird & Tatlock laboratory centrifuge, a suspension model that overcomes the annoying vibration often associated with pedestal types, especially in traffic areas. A new electric furnace, two aperiodic balances and a water deioniser are other useful items in the laboratory.

The main group of laboratories are situated on the floor above, flanking each side of a central corridor. Pharmaceutics occupies a number of rooms, conveniently grouped in close proximity to the main dispensing laboratory. An area

of 3,000 sq. ft. has been allocated to a pharmaceutics section comprising bacteriological laboratory, incubator room, media room, sterilisation laboratory, scrub-up room, aseptic laboratory, galenical laboratory, stores, staffroom and main dispensary. Entrance to the aseptic laboratory is gained via the scrub-up room. Equipment includes hot and cold taps with arrangements for turning by using the elbows, while the waste-pipe is opened and shut by a knee lever control. Hands are dried by hot-air units. Suitably gowned, the student goes into the aseptic laboratory via an air lock, the doors of which are rubber-cushioned to avoid air-pressure losses from the positive pressure maintained in the laboratory. The features designed for control of accidental infection in the course of aseptic preparation are common to most laboratories of this type. A novel contrivance is the automatic co-ordination of air outlet when the air lock door is opened. Normally air leaves via small vents near floor level, which are closed to force air out through the lock at times of entry. Alongside the aseptic section are electric ovens and autoclaves. A further room allows for the preparation of media adjacent to the bacteriology laboratory but also conveniently close to the sterilisation unit. As the building is heated by processed air, the department has not been able to draw upon centrally produced steam sources. A pressure boiler in the media room provides

the department's requirements in that respect.

Pharmaceutics will eventually command further laboratory space and equipment. At the moment steel girders form a construction mesh below the windows of the completed laboratories giving promise of the eventual completion of the building. A large laboratory devoted to pharmaceutical technology is under consideration, and the present limited space for galenical and manufacturing equipment is likely eventually to be vastly increased.

An efficient-looking and well equipped smaller laboratory is reserved for research. Forethought has placed that section

### The Department of Pharmacy at the Birmingham College of Technology is reborn

in convenient proximity to the biochemistry, physiology and pharmacology (as well as the pharmaceutics) laboratories, but the to and fro movements of the students will not

disturb the quieter requirements of the research workers.

The introduction of pharmacology into the new syllabus has required additions to the apparatus normally sufficient for physiology. Each of the twenty-four students is able to command the space for isolated organ baths and the necessary revolving drum recorders. The anatomical details can be gained from a full-scale plaster model of a human trunk, the relevant sections being exposed or available for inspection as organs may be removed from the model. A small but compact animal room leads off the main laboratory, with arrangements for the preparation of specimens.

# DROXALIN palatability in Peptic Ulcer



IN PEPTIC ULCER, carefully regulated medication is often interrupted by the patient's distaste for an acid adsorbent. Bland and palatable, DROXALIN TABLETS overcome this difficulty and are widely prescribed in the treatment of Peptic Ulcer, Hyperacidity and Sickness of Pregnancy.

DROXALIN combines the two most preferred acid adsorbents—Aluminium Hydroxide and Magnesium Trisilicate. Pleasantly flavoured, the DROXALIN TABLET commands the patient's ready acceptance, being free from grittiness or the metallic taste usually

associated with Aluminium Hydroxide therapy. DROXALIN gives quick relief from pain by rapid acid adsorption\* without danger of secondary acid rise or other harmful side effects. The special film packing enables DROXALIN to be carried hygienically in pocket or handbag.



*Active ingredients per tablet:*

*Gelat. Alumin. Hydrox. Sicc... 2.5 grains Mag. Trisil ... 2.5 grains.*

*\*This will neutralise 50 mls. of N/10 HCl in thirty minutes.*

**AT 2/6d. FOR 30 TABLETS DROXALIN SHOWS 34% on S.P.**

*A Dispensing Pack of 504 tablets is available.*

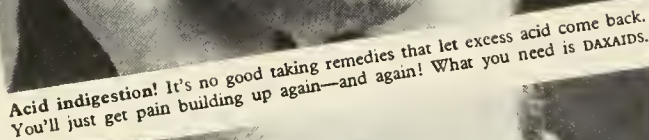
## DROXALIN

**Doctors receive regular mailings and samplings**

SCOTT & TURNER LTD., ANDREWS HOUSE, NEWCASTLE UPON TYNE, I.

# All Britain is heart

**DAXAIDS give hours longer relief—  
stop the pain of 'acid comeback'**



The graph above shows how an ordinary indigestion remedy, like 'a good dose of bicarb' causes violent swings in the strength of stomach acid. You stay in the comfort zone is all too short.

With DAXAIDS you can  
'Acid Comeback'

Now science has found this recurrent misery. New digestion tablets acid fast—but don't acidity below nor

TOO STRONG  
ACID (discomfort)  
COMFORT ZONE  
TOO WEAK

Look at  
DAXAIDS give  
with no come  
back to nature  
and keep it at ne

DAXAIDS' action is smooth and long-lasting. There's no violent action, so there's no *reaction*, no acid comeback, no early return of pain. And DAXAIDS are neither laxative nor constipating.

**America gives living proof**

The secret is a new discovery called D.A.S.C. (short for Dihydroxy Aluminum Sodium Carbonate.) Already millions of indigestion sufferers in America rely on it. And D.A.S.C. comes to you only in DAXAIDS.

D.A.S.C. was recently tested against three well-known remedies, Aluminium Hydroxide, Calcium Carbonate, and Sodium Bicarbonate. The tests were made on people subject to high stomach acidity. Over a period of one hour, only D.A.S.C. maintained the balance of acid in the stomach within the limits normally required for painless diges-

**Can't-be-missed  
press advertisements!**

Big-space, frequent advertisements like this will go in a huge-circulation list of papers! They'll be seen *many times over* by 33,862,000 adults!

# DAXAIDS

**EMPIRE NEWS**  
— Sunday Chronicle —

**Daily Mirror**

TELEVISION BBC AND SOUND  
**RADIO TIMES**  
ONE HOUR

# DAILY EXPRESS

TV PROGRAMMES Pages 24-37

THE PEOPLE  
THAT LOOKS AHEAD

# g about DAXAIDS!

## Almost every adult in Britain will have at least 16 chances to see DAXAIDS advertising

You and your customers will see DAXAIDS advertising everywhere. Practically every indigestion sufferer in the country will soon be wanting to try this new indigestion remedy – *proved* to give *quick* relief for *hours* longer!

DAXAIDS digestion tablets are based on D.A.S.C., the single-substance remedy that millions of sufferers in America already use. DAXAIDS have been tested and proved over here too. First, searching clinical trials.

Then marketing tests in selected towns. DAXAIDS came out of both with flying colours! There's already an enormous demand. Be ready for it!

LAST CHANCE FOR A GIANT BONUS OFFER. You secure a clear £2.10s.4d. cash profit! You buy only 4 doz. DAXAIDS Rolls and 2 doz. DAXAIDS Cartons. On your modest outlay of £4.1s.8d. you get a profit of over 60%! This offer applies to all orders received up to Saturday July 26th.

RETAIL PRICES: ROLL PACK 1/6d., CARTON 2/6d.

### Frequent ITV Commercials!

ght in peoples homes—TV brings life the DAXAIDS story with real situations. All adults in ITV homes the main vlewing areas will be able see them.



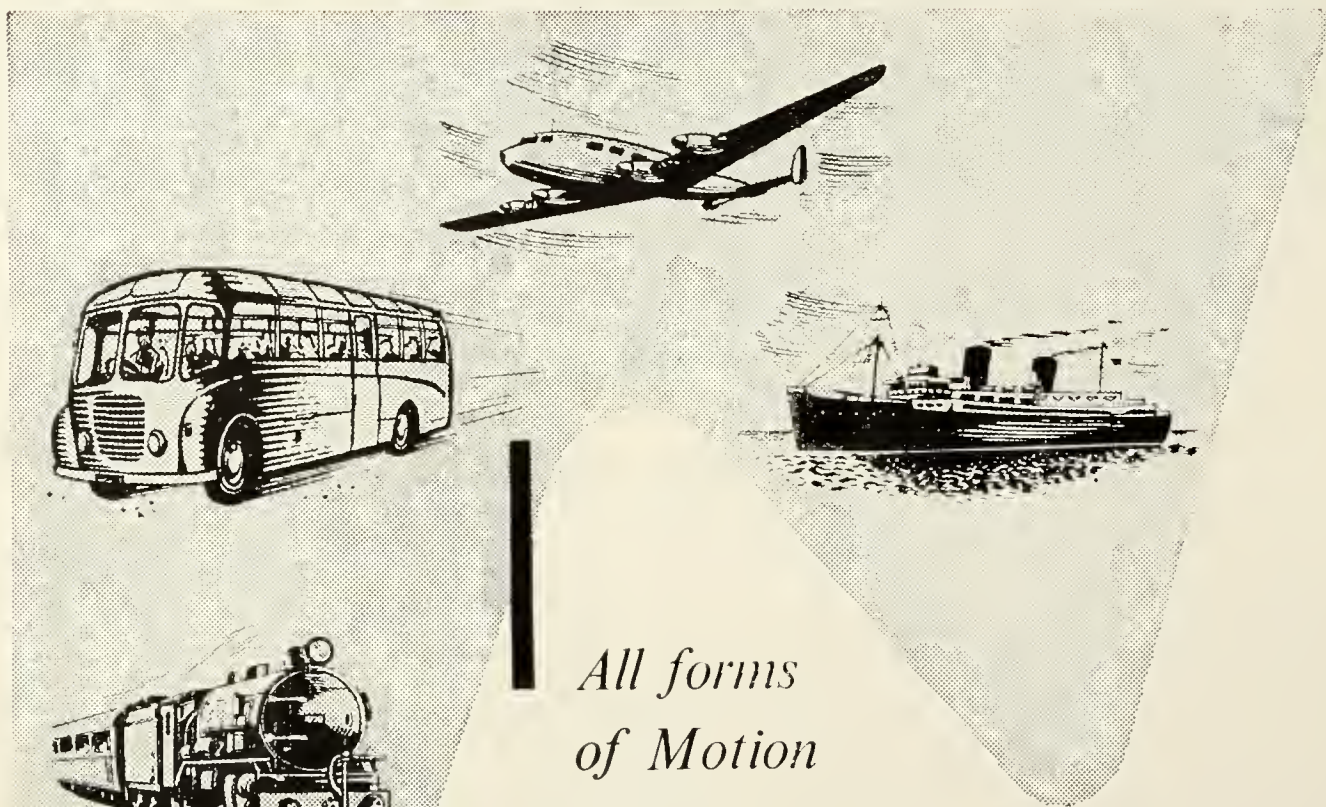
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MIDLANDS

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UNIVERSAL LABORATORIES · FOLKESTONE · KENT



*All forms  
of Motion  
Sickness  
respond to*

## **Dramamine**

**For Adults and Children  
Easy to Take**

### **Packs and Prices (Exempt from P.T.)**

*Tablets of 50 m.g.    Trade Price    Retail Price*

|              |       |       |
|--------------|-------|-------|
| Bottle of 12 | 5/-   | 7/6   |
| " 36         | 10/-  | 15/-  |
| " 100        | 25/6  | 38/3  |
| " 500        | 123/- | 184/6 |
| " 1,000      | 240/- | 360/- |

Box of 100 (strip pack-  
ing as illustrated)    25/6    38/3

*Injectons—5 c.c. vials  
containing 250 mg.*

Box of 6    32/6    48/6

*Dramamine is scheduled P.I. S.I.S.A.*



**SEARLE**

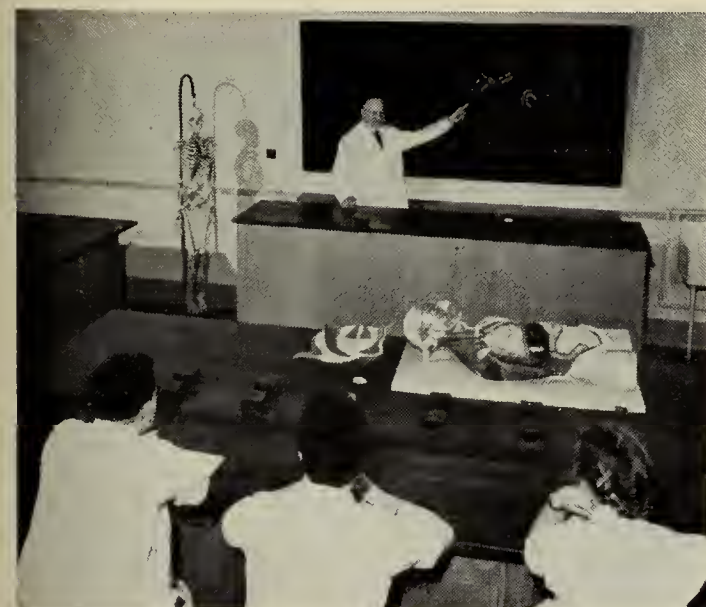
G. D. SEARLE & CO. LTD., HIGH WYCOMBE, BUCKS.

The grouping of the technologies in large colleges of this nature has many advantages to students and staff alike. Though a department library for reference purposes upon the specialised subjects of pharmacy will eventually be formed, a large central library, adjacent to the pharmacy department, is already functioning. Students are introduced to the essential technique of library research, a necessary preliminary to many technical projects and a useful aid to the extension of knowledge gained in current lectures. Characteristic of the College's centralisation of technology is the access to apparatus and equipment housed in other departments. Thus analogue and digital computers are being housed eventually in the mathematics section, and access to research instruments such as the electron microscope is being made possible.

Contact with other professions expands a student's horizons, and though conditions under the newly established three-year course have not yet been experienced, the Birmingham pharmacy department staff already supplement the syllabus with mathematics and working sessions in hospital dispensaries during the second year. Ethical pharmaceuticals are not to be neglected.



The chemical laboratory seen through the stock room service hatch.



The pharmacology laboratory is well designed, permitting lectures and practical work.



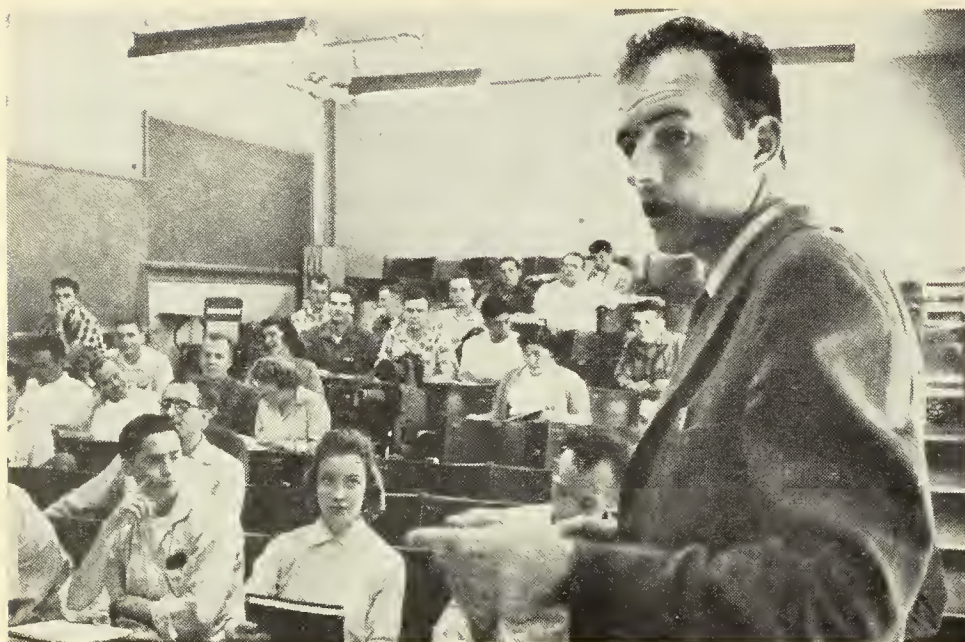
The scrub-up room anticipates entrance via an air-lock to the aseptic laboratory shown opposite.



Part of the main dispensary showing sterilisation room beyond.

The principal of the College of Technology is Dr. P. F. R. Venables, a member of council of the Royal Institute of Chemistry and the author of a book, "Technical Education," published in 1955.

Mr. F. R. C. Bateson (the head of the department) is sufficiently well known within the profession to require little introduction. After qualifying in 1920, his experience varied between academic life and retail pharmacy. In 1927 he was appointed lecturer at Chelsea Polytechnic, a decisive appointment that gave him thirty rich years of teaching experience. He holds appointments as examiner to the Pharmaceutical Societies of Great Britain and of Northern Ireland. In addition he is a member of the British Pharmaceutical Codex formulary subcommittee. Dr. J. Priestman (assistant head of the department) graduated at the University of Liverpool in 1928. Research took him to Germany for a year after he obtained his doctorate in 1930. Since 1935 he has lectured in pharmaceutics at Birmingham, and he is at present senior lecturer in pharmaceutical chemistry. Former members of the staff include Professor Berry (London University emeritus professor of pharmacy) and Professor Shotton (present professor of pharmacy at the School of Pharmacy, London University). Others are wider afield, teaching in Aberdeen, Sunderland, Liverpool, Bristol and Portsmouth. All told, it is a legitimate claim that Birmingham is "a college of the present," with an honourable past and a confidence in the future that it is most heartening to observe.



A lecture on pharmacognosy



Conversation piece at the entrance to the College

## APHARMACY COLLEGE OF THE U.S.A.

THE pictures on these pages of a pharmacy college at Los Angeles, California, U.S.A., provide an opportunity for comparison with life at a similar college in this country for on another page is shown the interior of one of our own modern colleges. The existence in the American colleges of a university dispensary, for example, illustrates at once a dramatic contrast between the two. The presence on the shelves of the American college of bottles distinctively marked with the names of pharmaceutical companies contrasts with the anonymous drug rounds in the average college dispensary in this country.



Preparing an ointment as an experiment in formulation



Exchange students from India and Thailand at work in a laboratory



Injecting a guinea pig



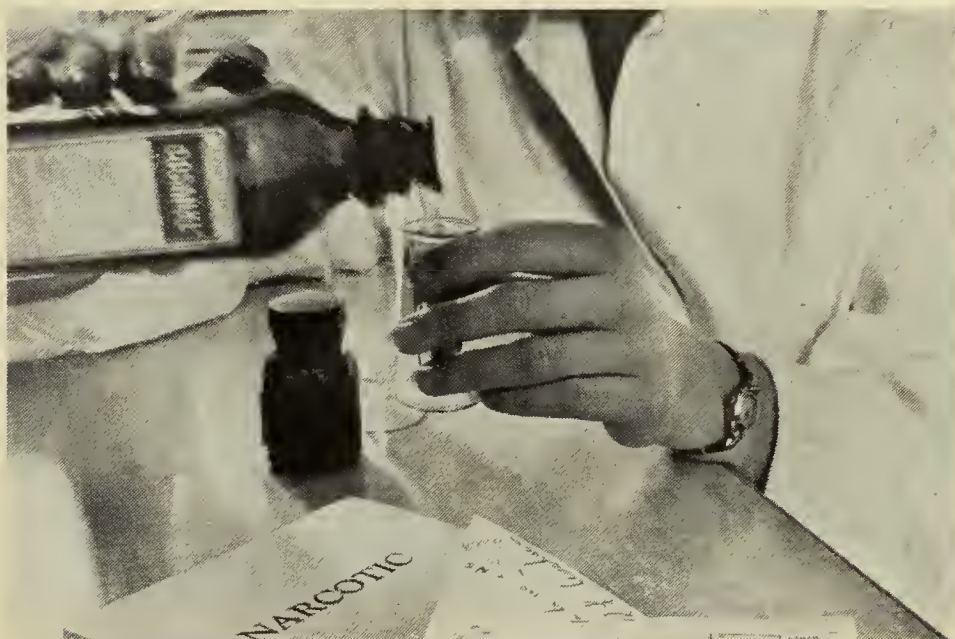
After a spell of duty in the college dispensary a student sets off for a class

In the United States the many complications of negotiating a contract under a National Health Service do not exist. Another difference between the two countries is the absence from the American illustrations of any suggesting study of pharmaceutical chemistry. The student depicted spends much of her time, it is understood, in the dispensary, and receives tuition in pharmacology and pharmacognosy. That she must also study chemistry, in view of its basic importance in pharmacy training, may be taken for granted, but no picture of her at work on that subject has been available for inclusion. The dispensing balance, it will be noted, is a glass and metal case, with a hinged lid allowing access to the scale pans when in use and protecting the instrument from dust or atmospheric corrosion at other times. The practical difficulties of keeping British balances clean and in first-class condition ought surely to stimulate similar or even greater care in that direction in this country.

Differences in layout and equipment apart, institutions in the two countries appear to have students very like one another in appearance.



The student as salesman: selling a customer a shampoo



A mixture is prepared for one of the "customers" of the dispensary



Weighing out a poisonous powder



Setting the balance in a practical pharmacy class before preparing an emulsion

# EDUCATION IN PHARMACY

## THE PHARMACEUTICAL CHEMIST QUALIFICATION

A period of transition (two-year syllabus superseded;  
three-year syllabus not yet published)

**PERSONS** registered as "student" by the Pharmaceutical Society on or after March 1, 1958, are required to undergo a three-year full-time course of study in preparation for the Pharmaceutical Chemist Qualifying examination. One year of practical training, either before or after the College course, is additionally required before admission to the Register. Privy Council approval is awaited for the new regulations (see *C. & D.*, February 15, p. 183) and pending such approval publication of the syllabuses, which have been approved by the Council of the Society (see *C. & D.*, March 15, p. 292) is held over. The new course will, it is understood, be wider in scope and more liberal in character than the one it replaces. It spreads the present two-year course partly into the third year, and introduces new material, especially concerning the organisation and administration of pharmaceutical practice.

### Northern Ireland

**Apprenticeship:**—Up to October 1, 1957, a candidate to be eligible for registration as an apprentice must have passed on one and the same occasion *either* the Matriculation examination of any University in the United Kingdom, the Grammar School Senior Certificate examination of the Northern Ireland Ministry of Education *or* the General Certificate of Education of the University of London in English or English language, a mathematical subject and three of the following:—English literature (where that is a separate subject), Latin, French, German, domestic science, history, geography, botany or biology or zoology, chemistry, physics or mechanics. After October 1, 1957, a candidate must have passed in English or English language, a mathematical subject, physics, chemistry and one of the following:—English literature (where that is a separate subject), a foreign language, domestic science, history (modern or ancient), geography, botany or biology or zoology.

**Preliminary Scientific Examination:**—After registration the student must attend a one-year full-time course of instruction in the subjects of Final Part I Qualifying examination. A student who has failed on three occasions to pass the examination may be permitted a fourth attempt only if so recommended by the board of examiners. A student who has passed the Final Part I Qualifying examination must then serve an apprenticeship of two years under a registered pharmacist.

**Pharmaceutical Chemist Qualifying Examination:**—After completion of apprenticeship the student must attend a two-year course of study for the Final Part II Qualifying examination. On passing that examination, provided he is not less than twenty-one years of age,

the student may receive a certificate of qualification. A person who has passed the final examination for the degree of pharmacutics of the Queen's University, Belfast, and who satisfies the examiners in such other subjects as the Council may determine is granted a certificate of qualification.

**Syllabuses:**—The syllabuses for the Intermediate and Qualifying examinations are the same as for the corresponding examinations in Britain, except in the case of pharmacognosy where the old syllabus, setting out the drugs to be studied, is retained. Examinations are being held in June and December of each year. The entrance fees are:—*Final Part I*, First time of entry, £6 6s.; any subsequent entry, £4 4s. *Final Part II*, First time of entry, £12 12s.; any subsequent entry in all subjects, £10 10s.; and any subsequent entry in not more than two subjects, £5 6s.

A student who has failed to pass the Final Part II Qualifying examination on any occasion may be required to undertake an approved course of study in one or more subjects before being permitted to enter again.

### Republic of Ireland

AN applicant for registration as a pharmaceutical student in the Republic of Ireland must have passed a preliminary examination in English, Irish, Latin, mathematics, and a fifth subject and in addition the pre-registration examination of the Pharmaceutical Society of Ireland. A candidate who has gained credit for physics and chemistry (or general science) in the preliminary examination or in certain university examinations is exempt from the pre-registration examination. The preliminary examination may be: (a) the Leaving Certificate examination of the Irish Department of Education, (b) the matriculation examination of the National University, (c) any examination of equivalent standard, conducted outside the State, which may be acceptable to the Council.

**The Science Course.**—A registered student must attend the Society's College for a continuous course of three terms of lectures in pharmaceutical and general chemistry, biology, pharmaceuticals, forensic pharmacy, history of pharmacy and ethics. A student must pass terminal examinations and the First Professional examination (held annually).

**Apprenticeship.**—A student who has passed the First Professional examination must serve three years as an apprentice in an approved pharmacy.

**The Pharmacy Course.**—At the conclusion of apprenticeship a student returns to the Society's College for a further continuous course of three terms of lectures in pharmaceutical chemistry, pharmacutics, pharmacognosy, pharmacology, forensic phar-

macy. A student who has passed terminal examinations is entitled to enter for the Second Professional examination. On passing this he is eligible for registration as a pharmaceutical chemist.

**Syllabus: CHEMISTRY.**—(a) *Theoretical and Physical Chemistry:* Atomic structure, gas laws, kinetic theory of gases, osmotic pressure, law of mass action, laws of electrolysis, ionisation, solubility products, *pH* values (including buffer solutions and indicators), molecular weight determinations, radioactivity, bond structure. (b) *Inorganic Chemistry:* A study of the chemistry of the elements based on the periodic table interpreted in the light of modern views on atomic structure. (c) *Organic Chemistry:* A general study of aliphatic and aromatic compounds, with special reference to those of pharmaceutical importance.

**Practical:** Qualitative analysis of simple salts and of mixtures containing not more than two basic and two acidic radicals. Volumetric analysis, including acidimetry and alkalimetry, permanganate, iodine and silver nitrate titrations; simple problems involving such titrations. Preparations of simple organic substances, including tests for purity such as melting-point and boiling-point determinations.

**PHARMACEUTICS.**—*Theoretical:* Preparation of pharmaceutical products of the Pharmacopoeia, processes there employed, official methods of standardisation, processes employed in the compounding of prescriptions, precautions in aseptic dispensing, pharmaceutical sterilisation, application of physico-chemical concepts to pharmacy (e.g., osmotic pressure, *pH*, solubility products, acid-base reactions, etc.). *Practical:* Weighing, measuring and compounding medicines, writing directions and finishing properly, calculation of quantities in prescriptions, detection of incompatibilities and overdoses, preparation of official and semi-official galenicals, sterilisation of medicaments and solutions for injection, identification of medicaments and preparations commonly used in medicine, compounding under aseptic conditions.

**PHARMACOGNOSY.**—The recognition of specimens of vegetable and animal substances used in medicine, a knowledge of the family, methods of cultivation, collection and preservation of drugs, and their source (botanical or zoological, and geographical); their chief constituents and adulterants; their galenical preparations and doses.

**BOTANY.**—General morphology and physiology of the plant kingdom, systematic botany, characteristics of the principal members of the vegetable kingdom (algæ, fungi, pteridophyta and thallophyta) and the characters of a number of selected families.

**ZOOLOGY.**—General morphology of the animal, with special reference to a few selected examples, e.g., rabbit, dog-fish, etc. Physiology of animals: respiration, absorption, digestion and elaboration of food materials; enzymes and hormones.

**BIOCHEMISTRY.**—Chemical structure of human tissues (e.g., bone, muscle, blood). Hormones, vitamins and enzymes, their location and action, and diseases caused by deficiency. Human physiology, location and functions of the principal human organs, action of medicaments in the treatment of infections and diseases.

**INTRODUCTION TO BACTERIOLOGY.**—A course on the biology of bacteria; the preparation of culture media, staining, etc., to provide students with a basis for more advanced work in the pharmaceutical course.

**Assistants' Examination.**—A person wishing to be registered as a pharmaceutical assistant apprentice is required

to pass an examination in four compulsory subjects (Irish, English, Latin and mathematics) plus a fifth. On registration the student may enter upon a three-year apprenticeship. Completion of the apprenticeship is followed by entry into the College of Pharmacy, Dublin, for a four-month term of lectures leading to the Pharmaceutical Assistant examination. A successful candidate may legally discharge the duties of a pharmaceutical chemist during the "temporary absence" of the pharmacist.

**Membership.**—A person whose name is entered on the Register of Pharmaceutical Chemists may use the suffix L.P.S.I. He may apply for membership (M.P.S.I.) and on election pays an annual subscription of £3 3s.

**Fees.**—Preliminary registration, £4 4s.; Science course, £63; First Professional examination, £6 6s.; Pharmacy course, £63; Second Professional examination, £6 6s.; Assis-

stants' examination, £3 3s.; Assistants' registration, £2 2s.; Licence registration, £10 10s.

A student registered prior to July 31, 1952, may elect to follow the regulations which were in force up to that date. If such a student has not passed the Licence examination during an interim period of six years, he will be obliged to conform to the regulations summarised above. The Licence examination is conducted in two parts (corresponding to the First and Second Professional examinations). Part 1 consists of chemistry, botany and biology; part 2 of pharmaceuticals, pharmacognosy, compounding and dispensing, forensic pharmacy. A candidate may not take part 2 until he has passed part 1. A candidate who fails part 1 may enter for re-examination at intervals of three months. A candidate who fails part 2 may enter for re-examination at intervals of six months. The fee for either part is £6 6s.

## OTHER COURSES OPEN TO STUDENTS

### London External Degrees

THE following colleges offer courses leading to the Intermediate Bachelor of Pharmacy (London) (external) or the accepted equivalent G.C.E. examination. In the list the date of commencement is followed (in parentheses) by the date of enrolment for the course. Application for places should be made as soon as possible.

**BLACKBURN:** Municipal Technical College, September 8 (September 8); **BRADFORD:** Institute of Technology, September 29 (September 23-26); **BRIGHTON:** Technical College, September 18 (September 16); **CHATHAM:** College of Technology, September 9 (September 8); **CHELMSFORD:** Technical College, September 22 (immediately); **CHELTONHAM:** Technical College, September 15 (September 8); **CROYDON:** Technical College, September 15 (September 8-10); **DARTFORD:** North-west Kent College of Technology, September 8 (immediately); **HULL:** College of Technology, September 15 (September 8); **LEICESTER:** College of Technology, September 15 (by September 15); **LONDON:** Norwood, Technical College, September 22 (September 15-17); Regent Street Polytechnic, September (evening classes, September 18); South-west Essex Technical, September 11 (ditto); **NEWPORT:** Technical College (details from College); **NORWICH:** City College and Art School, September 23 (September 16); **PORTSMOUTH:** College of Technology, September 16 (September 10-12); **PRESTON:** Harris College of Further Education, September 23 (September 16-22); **REDRUTH:** Technical College, September 15 (September 1); **ROTHERHAM:** Technical College, September 22 (September 8); **SOUTH-END-ON-SEA:** Municipal College, September 9 (ditto); **SUNDERLAND:** Technical College, October 1 (September 18); **SWANSEA:** Technical College, September 24 (September 15-20); **TORQUAY:** Technical College, September 15 (September 15); **WIGAN:** Technical College, September 23 (September 9-13).

### Final B.Pharm.

The following colleges offer courses

for the final Bachelor of Pharmacy (London) (external) examination: **BRADFORD:** Institute of Technology, September 29 (September 23-26); **BRIGHTON:** Technical College, September 18 (no vacancies); **LEICESTER:** College of Technology, September 15 (no vacancies); **LONDON:** Chelsea College of Science and Technology, September 22 (no vacancies).

### Diploma in Biochemical Analysis

THE course for the Diploma in Biochemical Analysis of the Pharmaceutical Society is concerned with the chemical examination of urine, blood, etc. Courses are available at:—

**BRADFORD:** Institute of Technology, September 29 (September 23-26); **LONDON:** Chelsea College of Science and Technology, October 15 (October 4); **LIVERPOOL:** College of Technology, September 17; **NOTTINGHAM:** The University; **SWANSEA:** Technical College, September 24 (September 15-20).

### Revision and Post-graduate Courses etc.

**BRIGHTON:** Technical College; post-graduate course upon "The Pharmacology of Drugs acting upon the Central Nervous System," commencing September 30.

**BRISTOL:** College of Technology; post-graduate course entitled "Recent Advances in Pharmacology and Therapeutics," commencing on January 7, 1959. Members of the Faculty of Medicine, Bristol University, will lecture in this course.

**CROYDON:** Technical College; Third post-graduate refresher course including national formulary, forensic pharmacy and recent advances in therapeutics. Further information from G. F. Clark, 9 Palace View, Shirley, Croydon. Springbrook 7033.

**DAGENHAM:** South-east Essex Technical College; post-graduate course upon "Recent Advances in Pharmacology and Therapeutics" commencing on September 7.

**KINGSTON-UPON-THAMES:** Technical College; post-graduate course upon

"Recent Advances in Protein Chemistry" commencing on November 4.

**LEICESTER:** College of Technology; "Radio-chemistry," a post-graduate course commencing in September. A further post-graduate course "Pharmacology and Therapeutics" will commence on September 16.

**PORTSMOUTH:** College of Technology; post-graduate course upon "Radio-active Substances" commencing on September 22. A week-end post-graduate course will be held on March 21-22, 1959, on "Virology and Recent Advances in Bacteriology."

**SUNDERLAND:** Technical College; Refresher and post-graduate courses for pharmacists will be held in the autumn term.

### Apothecaries' Assistants

COMPLYING with obligations laid down in the Apothecaries Act 1815, the Society of Apothecaries of London, Black Friars Lane, Queen Victoria Street, London, E.C.4, continues to issue "certificates of competence to act as assistants in dispensing." Candidates are examined in practical pharmacy and materia medica. Examinations are held in January, April, July and October of each year. Candidates must produce official evidence as to their standard of general education, which must be approved, in order that they may be registered with the Society. They may then embark upon the course of practical training which lasts two years. For further particulars enquiries should be addressed to the Registrar at the above address.

### Medicine

THE registration body for medical practitioners in the United Kingdom is the General Medical Council, 44 Hallam Street, London, W.1. There are a number of examining bodies, and when a student has passed the final examination of one of these bodies he is entitled to provisional registration as a medical practitioner. In order to obtain full registration he must thereafter render satisfactory service for twelve

# COURSES FOR PHARMACY STUDENTS

## 1. INTERMEDIATE EXAMINATION

THE following table gives details of courses for the Pharmaceutical Society's Intermediate examination and its G.C.E. equivalent. Intending students should apply for places as soon as possible.

The designation of the department is indicated by the italic letter following the name of the institution:—  
*B*=Biology; *C*=Chemistry; *P*=Pharmaceutical; *S*=Science

| Centre                 | Institution                                           | Head of Department                                    | Session starts | Enrolment                     |
|------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------|-------------------------------|
| ABERDEEN ...           | Robert Gordon's Technical College* <i>P</i>           | J. E. Bowen, B.Sc., F.P.S., F.R.I.C.                  | October 7      | August 1                      |
| BIRMINGHAM ...         | College of Technology* <i>P</i>                       | F. R. C. Bateson, B.Pharm., F.P.S.                    | September 29   | September 15                  |
| BIRKENHEAD ...         | Technical College <i>C</i>                            | D. G. Cooper, B.Sc., F.R.I.C., A.I.B.P.               | September 29   | September 9                   |
| BLACKBURN ...          | Municipal Technical College <i>S</i>                  | A. Walton, M.Sc., F.R.I.C., Dip. Ed.                  | September 8    | September 8                   |
| BOLTON ...             | Technical College <i>C</i>                            | L. P. Lawrence, M.Sc., A.R.I.C.                       | September 8    | Aug. 25–Sept. 5               |
| BOURNEMOUTH ...        | Municipal College of Technology and Commerce <i>S</i> | C. J. Cooper, B.Sc., A.R.C.S., F.R.I.C.               | September 15   | September 8–10                |
| BRADFORD ...           | Technical College* <i>P</i>                           | F. N. Appleyard, B.Sc., F.P.S., F.R.I.C.              | September 29   | September 23–26               |
| BRIGHTON ...           | Technical College* <i>P</i>                           | James C. Parkinson, B.Pharm., Ph.D., F.P.S., F.R.I.C. | September 18   | September 16                  |
| BRISTOL ...            | College of Technology* <i>P</i>                       | D. A. Norton, B.Sc., A.C.T. (Birm.)                   | September 18   | No vacancies                  |
| BURNLEY ...            | Municipal College <i>C</i>                            | F. Clifford, B.Sc.                                    | September 22   | September 1                   |
| CARLISLE ...           | Technical College <i>C</i>                            | F. H. Day, Ph.D., M.Sc., F.R.I.C.                     | September 22   | September 9–12                |
| CHATHAM ...            | Medway College of Technology <i>C</i>                 | H. I. Stonehill, D.Sc., F.R.I.C.                      | September 9    | September 8                   |
| CHELMSFORD ...         | Mid-Essex Technical College <i>S</i>                  | M. R. Gridley, B.Sc., F.Inst.P.                       | September 22   | Immediately                   |
| CHELTENHAM ...         | North Gloucestershire Technical College <i>S</i>      | L. McPherson, M.Sc., F.Inst.P.                        | September 15   | September 8                   |
| COLCHESTER ...         | North-east Essex Technical College <i>S</i>           | A. P. Dickerson, B.Sc.                                | September 15   | September 9–11                |
| COLWYN BAY ...         | Grammar School <i>S</i>                               | T. O. Griffiths, B.Sc., F.R.I.C.                      | September      | July                          |
| COVENTRY ...           | Technical College <i>C</i>                            | H. C. Smith, M.Sc., Ph.D., F.R.I.C.                   | September      | September                     |
| CROYDON ...            | Technical College <i>C</i>                            | S. R. Robinson, Ph.D., B.Sc., F.R.I.C.                | September 15   | September 8–10                |
| CRUMLIN ...            | Technical College of Monmouthshire <i>C</i>           | V. A. Hewlett, F.R.I.C., M.Sc.                        | September 11   | September 8                   |
| DAGENHAM ...           | South-east Essex Technical College <i>C</i>           | J. Ratcliffe, B.Sc., F.R.I.C.                         | September 17   | September 15                  |
| DARTFORD ...           | North-west Kent College of Technology <i>S</i>        | J. R. Barr, M.Sc., F.R.I.C.                           | September 8    | Immediately                   |
| DERBY ...              | Technical College <i>C</i>                            | A. G. Catchpole, Ph.D., B.Sc., F.R.I.C.               | September 22   | September 15                  |
| DONCASTER ...          | Technical College <i>C</i>                            | W. F. Andrews, M.Sc., B.Sc., A.R.I.C.                 | September 22   | September 15                  |
| DUNDEE ...             | Technical College* <i>P</i>                           | H. A. Perkin, B.Pharm., F.P.S.                        | September 29   | September 29                  |
| EDINBURGH ...          | Heriot-Watt College* <i>P</i>                         | H. H. Campbell, B.Sc., F.P.S., F.R.I.C.               | October        | July                          |
| ENFIELD ...            | Technical College <i>C</i>                            | J. E. Jones, B.Sc., A.Inst.P.                         | September 22   | September 11–16               |
| EWELL ...              | County Technical College <i>S</i>                     | R. L. D. Ellis, M.Sc., F.R.I.C.                       | September 15   | September 8–10                |
| FOLKESTONE ...         | Technical College <i>C</i>                            | K. L. Scott, Ph.D., B.Sc.                             | September 15   | Immediately                   |
| GLOUCESTER ...         | Technical College <i>S</i>                            | R. B. Williams, B.A., B.Sc., D.Phil., M.A.            | September      | September                     |
| GUILDFORD ...          | County Technical College <i>C</i>                     | J. C. Bevan, M.A., B.Sc., A.R.I.C.                    | September 22   | September 15                  |
| HALIFAX ...            | Percival Whitley College of Further Education         | L. Hey, B.Sc., Ph.D., A.R.I.C.                        | September 22   | September 8–10                |
| HUDDERSFIELD ...       | Technical College <i>P</i>                            | D. O. Weitzel, B.Sc.                                  | September      | September 9                   |
| HULL ...               | College of Technology <i>P</i>                        | L. Balmforth, B.Sc., F.R.I.C.                         | September 15   | September 8                   |
| KINGSTON-ON-THAMES ... | Technical College <i>C</i>                            | N. E. Lindop, B.Sc., F.R.I.C.                         | September 22   | September 15                  |
| LEEDS ...              | College of Technology <i>C</i>                        | W. R. Burnham, M.Sc., Ph.D., F.R.I.C.                 | September 10   | September 9                   |
| LEICESTER ...          | College of Technology* <i>P</i>                       | C. Gunn, B.Pharm., F.P.S.                             | September 15   | By September 15               |
| LIVERPOOL ...          | College of Technology* <i>P</i>                       | T. L. Bowyer, F.P.S., F.R.I.C.                        | September 15   | September 8                   |
| LONDON ...             | Acton Technical College <i>C</i>                      | J. Atchison, M.Sc., A.Inst.P.                         | September 22   | September 15                  |
|                        | Northern Polytechnic <i>C</i>                         | W. Gerrard, D.Sc., Ph.D., F.R.I.C.                    | September 22   | Immediately                   |
|                        |                                                       |                                                       |                | Full-time,<br>September 16–17 |
|                        |                                                       |                                                       |                | Part-time                     |
|                        | Norwood Technical College <i>C</i>                    | M. J. Birchenough, Ph.D., F.R.I.C.                    | September 8    | Immediately                   |
|                        | Regent Street Polytechnic <i>C</i>                    | W. Davey, Ph.D., B.Sc., F.R.I.C.                      | September 22   | September 17                  |
|                        | South-west Essex Technical College <i>S</i>           | R. W. Jukes, B.Sc., A.R.I.C.                          | September 10   | Evening only                  |
| MIDDLESBROUGH          | Constantine Technical College <i>S</i>                | G. Bulmer, M.A., Ph.D., F.R.I.C.                      | September      | September 10                  |
|                        |                                                       |                                                       |                | Immediately                   |

| Centre              | Institution                             | Head of Department                           | Session starts | Enrolment          |
|---------------------|-----------------------------------------|----------------------------------------------|----------------|--------------------|
| NEATH ...           | Technical College S                     | E. McCutcheon, M.Sc.                         | September      | September          |
| NEWCASTLE ...       | Rutherford College of Technology C      | L. Hallett, M.A., F.R.I.C.                   | September 15   | September 8        |
| NEWPORT ...         | Technical College C                     | L. McGraghan, M.Sc., F.R.I.C.                | September 22   | September 15       |
| NORTHAMPTON ...     | College of Technology S                 | W. Siddall, B.Sc., Ph.D., A.R.I.C.           | September      | September          |
| NORWICH ...         | City College and Art School S           | R. Jones, B.Sc.                              | September 22   | Sept. 12, 15, 16   |
| NOTTINGHAM ...      | Technical College S                     | J. R. Rowlands, M.Sc., A.R.I.C.              | September 22   | September 12       |
| PAISLEY ...         | Technical College C                     | J. S. McLean, B.Sc., F.R.I.C.                | September      | Immediately        |
| PLYMOUTH ...        | Technical College* P                    | V. Smith, M.Sc., F.R.I.C., F.P.S.            | September 15   | Immediately        |
| PORTSMOUTH ...      | College of Technology* P                | E. Thorpe, B.Pharm., B.Sc., F.P.S.           | September 15   | September 9-11     |
| PRESTON ...         | Harris College of Further Education C   | S. Skidmore, B.Sc., Ph.D., A.R.I.C.          | September 15   | September 8        |
| REDRUTH ...         | Cornwall Technical College S            | J. R. Slater, B.Sc.                          | September 15   | By September 1     |
| ROTHERHAM ...       | College of Technology C                 | M. B. Thompson, A.R.S.M., B.Sc., Ph.D.       | September 22   | September 8        |
| ST. HELENS ...      | Technical College C                     | L. W. M. Tyrrell, B.Sc., Ph.D., F.R.I.C.     | September 18   | September 11-15    |
| SALFORD ...         | Royal Technical College C               | G. R. Ramage, D.Sc., Ph.D., F.R.I.C.         | September      | No vacancies       |
| SHREWSBURY ...      | Technical College S                     | P. K. Bingham, M.Sc.                         | September      | September          |
| SOUTHEND-ON-SEA ... | Municipal College C                     | C. R. Barnes, B.Sc., A.R.I.C.                | September      | September          |
| SOUTHPORT ...       | Technical College S                     | A. E. Hollis, B.Sc.                          | September 7    | Immediately        |
| STOCKPORT ...       | The College C                           | H. H. Armstrong, B.Sc., F.R.I.C.             | September 22   | September 16-17    |
| STOKE-ON-TRENT ...  | North Staffordshire Technical College C | W. K. Wilde, M.Sc., F.R.I.C.                 | September 22   | September 15-19    |
| SUNDERLAND ...      | Technical College* P                    | F. H. Oliver, B.Sc., B.Pharm., F.P.S.        | October 1      | September 24       |
| SWANSEA ...         | Technical College C                     | A. R. Lowe, Ph.D., F.R.I.C.                  | September 24   | September 15-20    |
| TORQUAY ...         | South Devon Technical College C         | C. A. Colman-Porter, M.Sc., F.R.I.C., F.C.S. | September 15   | Up to September 15 |
| WEYBRIDGE ...       | Brooklands County Technical College S   | R. C. Rogers, M.Sc., A.R.C.S., A.R.I.C.      | September 22   | September 15-17    |
| WIGAN ...           | Wigan Mining and Technical College C    | H. K. Dean, B.Sc., Ph.D., F.R.I.C.           | September      | September          |
| WOLVERHAMPTON ...   | College of Technology                   | J. A. Waddams, M.Sc., A.R.I.C.               | September      | September          |
| WREXHAM ...         | Denbighshire Technical College C        | E. W. Claydon, Ph.D., F.R.I.C.               | September      | September          |

\*Institutions also offering a course for the Qualifying examination.

## 2. QUALIFYING EXAMINATION

| Centre         | Institution                                                    | Head of Pharmaceutical Department                       | Session starts | Enrolment          |
|----------------|----------------------------------------------------------------|---------------------------------------------------------|----------------|--------------------|
| ABERDEEN ...   | Robert Gordon's Tech. College                                  | J. E. Bowen, B.Sc., F.P.S., F.R.I.C.                    | October 7      | August 1           |
| BIRMINGHAM ... | College of Technology                                          | F. R. C. Bateson, B.Pharm., F.P.S.                      | September 29   | No vacancies       |
| BRADFORD ...   | Technical College                                              | F. N. Appleyard, B.Sc., F.P.S., F.R.I.C.                | September 29   | September 23-26    |
| BRIGHTON ...   | Technical College                                              | James C. Parkinson, Ph.D., B.Pharm., F.P.S., F.R.I.C.   | September 18   | No vacancies       |
| BRISTOL ...    | College of Technology                                          | D. A. Norton, B.Sc., F.P.S.                             | September 16   | Immediate          |
| CARDIFF ...    | Welsh School of Pharmacy, Welsh College of Advanced Technology | R. V. Lloyd, B.Pharm., F.P.S.                           | September 24   | No vacancies       |
| DUNDEE ...     | Technical College                                              | H. A. Perkin, B.Pharm., F.P.S.                          | September 22   | Up to September 22 |
| EDINBURGH ...  | Heriot-Watt College                                            | H. H. Campbell, B.Sc., F.P.S., F.R.I.C.                 | October 8      | No vacancies       |
| GLASGOW ...    | Royal College of Science and Technology                        | J. P. Todd, Ph.D., F.P.S., F.R.I.C.                     | October 6      | No vacancies       |
| LEICESTER ...  | College of Technology                                          | C. Gunn, B.Pharm., F.P.S.                               | September 15   | No vacancies       |
| LIVERPOOL ...  | College of Technology                                          | T. L. Bowyer, F.R.I.C., F.P.S.                          | September 17   | No vacancies       |
| LONDON ...     | Chelsea College of Science and Technology                      | C. Morton, B.Sc., F.P.S.                                | September 22   | No vacancies       |
| MANCHESTER ... | The University                                                 | K. Bullock, Ph.D., F.P.S., F.R.I.C.                     | October 2      | No vacancies       |
| NOTTINGHAM ... | The University                                                 | G. E. Trease, B.Pharm., F.P.S., F.R.I.C., F.L.S.        | October        | No vacancies       |
| PLYMOUTH ...   | Technical College                                              | Professor W. H. Linnell, D.Sc., Ph.D., F.P.S., F.R.I.C. | September 15   | Immediately        |
| PORTSMOUTH ... | College of Technology                                          | E. Thorpe, B.Sc., B.Pharm., F.P.S.                      | September 15   | September 9-11     |
| SUNDERLAND ... | Technical College                                              | F. H. Oliver, B.Sc., B.Pharm., F.P.S.                   | October 1      | September 24       |

## 3. UNIVERSITY INTERNAL DEGREE COURSES IN PHARMACY

The following universities and colleges offer courses for internal degrees in pharmacy.

| Centre         | Institution                                                    | Head of Pharmaceutical Department                       | Session starts | Enrolment    |
|----------------|----------------------------------------------------------------|---------------------------------------------------------|----------------|--------------|
| CARDIFF ...    | Welsh School of Pharmacy, Welsh College of Advanced Technology | R. V. Lloyd, B.Pharm., F.P.S.                           | September 30   | No vacancies |
| GLASGOW ...    | Royal College of Science and Technology                        | J. P. Todd, Ph.D., F.P.S., F.R.I.C.                     | October 6      | No vacancies |
| LONDON ...     | Chelsea College of Science and Technology                      | C. Morton, B.Sc., F.P.S.                                | September 22   | No vacancies |
|                | School of Pharmacy, University of London                       | Professor W. H. Linnell, D.Sc., Ph.D., F.P.S., F.R.I.C. | October 1      | No vacancies |
| MANCHESTER ... | The University                                                 | K. Bullock, Ph.D., F.P.S., F.R.I.C.                     | October 2      | No vacancies |
| NOTTINGHAM ... | The University                                                 | G. E. Trease, B.Pharm., F.P.S., F.R.I.C., F.L.S.        | October 10     | No vacancies |

months in appropriate resident appointments in approved hospitals or institutions. Study occupies a minimum of five years after passing a recognised examination in general education and in chemistry, physics and biology.

The principal universities in the U.K. confer degrees in medicine and surgery (M.B., Ch.B. or equivalent). Other examining bodies whose qualifications confer a title to registration are:—

THE ROYAL COLLEGE OF PHYSICIANS OF LONDON and THE ROYAL COLLEGE OF SURGEONS OF ENGLAND, particulars from the Secretary, Examining Board in England, Examination Hall, 8 Queen Square, London, W.C.1.

THE SOCIETY OF APOTHECARIES OF LONDON, particulars are obtainable from the Registrar, Apothecaries' Hall, Black Friars Lane, Queen Victoria Street, London, E.C.4.

THE ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF EDINBURGH and THE ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW, particulars are obtainable from the Secretary, Scottish Conjoint Board, 18 Nicholson Street, Edinburgh.

### Dentistry

THE practice of dentistry is restricted by Act of Parliament to persons registered in the dentists register or under the Medical Acts, but the provision of general dental services under the National Health Service Acts is confined to persons included in the dentists register. Possession of a degree or licence in dental surgery granted by a university or other licensing corporation in Great Britain or Ireland carries with it the right to be included in the dentists register kept by the General Dental Council, 44 Hallam Street, London, W.1. Degrees and/or licences in dental surgery are granted by Bristol, Durham, Leeds, Liverpool, Manchester and Sheffield Universities and by Queen's University, Belfast. Degrees only are granted by Birmingham, London, Edinburgh, Glasgow, and St. Andrews Universities and by the National University of Ireland and by Dublin University. Licences are granted by:—ROYAL COLLEGE OF SURGEONS OF ENGLAND, Lincoln's Inn Fields, London, W.C.2; ROYAL COLLEGE OF SURGEONS OF EDINBURGH, 18 Nicholson Street, Edinburgh, 8; ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW, 242 St. Vincent Street, Glasgow; ROYAL COLLEGE OF SURGEONS IN IRELAND, St. Stephen's Green, Dublin.

The course usually extends over five years (including one year devoted to chemistry, physics and biology).

Registration in the Republic of Ireland is in the hands of the Dental Board, whose address is 57 Merrion Square, Dublin.

### Optics

THERE are four examining bodies concerned with the career of ophthalmic opticians: The Worshipful Company of Spectacle Makers, the British Optical Association, the Scottish Association of Opticians, and the Institute of Optical Science. The qualifying course lasts

three years at an approved college plus one year's clinical practice. Further details from the Association of Optical Practitioners, 65 Brook Street, London, W.1.

### Chiropody

To gain admission to the National Register of Medical Auxiliary Services, it is necessary to pass the examination of the Society of Chiropodists, 8 Wimpole Street, London, W.1. The pass certificate of the Society is also accepted by the Ministry of Health and the Department of Health for Scotland as qualifying for employment within the National Health Service.

### Photographics

THE examinations of the Photographic Dealers' Association have for their object the raising of the standard of efficiency of assistants, both in practical photography and salesmanship as applied to the business of the photographic dealer. The examinations, which can be taken by retail photographic dealers and assistants, will comprise intermediate and advanced grades. In the intermediate examinations, candidates will be required to give written and oral answers to the questions set on such subjects as simple cameras, accessories, sensitised materials, chemicals, etc. All successful candidates in the intermediate examination receive a certificate. In the advanced examination, which is divided into two parts, Part I, general, and Part II, cine, candidates obtain a diploma for passing either part. That examination is open only to those who have passed the intermediate, and comprehensive knowledge must be shown in the following subjects:—General—miniature cameras, processing, enlarging, colour and cine photography, etc., to a more advanced standard; cine—principles of amateur cinematography, sensitometry, films and

processing, exposure, cameras and projectors, etc.

The examinations which consist of three parts, written, oral and practical, are restricted to those engaged in retail photographic dealing, and the examination is designed, in each of its three parts, to test the merit of candidates from the standpoint of retail photography. The written paper calls for a sufficient standard of knowledge for the candidate to be able to give satisfactory and reliable technical advice to a customer. The practical test is primarily one of the technical ability in using everyday photographic materials correctly. The oral examination provides the opportunity for the candidate to demonstrate his abilities as a photographic dealer's assistant.

Holders of the P.D.A. diploma become automatically eligible for associate membership of the Association on application, and if and when they open an approved retail shop, are automatically entitled to full membership of the P.D.A.

The examinations take place in London, Manchester, Dublin and a suitable centre in Scotland. The entrance fees are:—Intermediate examination, £2 2s.; advanced examination, £3 3s.

Candidates must pass in all three parts of the examination, but in the intermediate examination a candidate who fails in any one section may re-enter subsequently and within two years for that section only. If the section failed is the practical only, a candidate may submit further samples of his practical work after a period of six months from the date of the examination. In the advanced examination, a candidate who fails in the practical section only, may re-enter for that section only. Details of the syllabus may be obtained from the general secretary of the Association, P.D.A. House, 46 Bloomsbury Street, London, W.C.1.

## COLONIAL TERRITORIES 1957-58

### Chemotherapy in tropical diseases

SOME indication of the wide range of medical research carried out in the Colonies is given in the report: "The Colonial Territories 1957-1958" (H.M. Stationery Office, 9s.). The investigation of malaria, the report states, continued in the Taveta-Pare area of Tanganyika and Kenya, where after four rounds of house spraying with dieldrin the parasite rate in infants fell dramatically. In Sokoto in a project undertaken by the United Nations Children's Fund and the Government of Northern Nigeria, the vector mosquito developed a resistance to dieldrin and Gammexane but DDT proved effective. In Gambia studies continued on two groups of children, one of them protected from birth by anti-malarial drugs. Various regimes of treatment with Hetrazan were carried out in the treatment of filariasis in East Africa, Fiji, Gambia and Malaya; the intention was to reduce the microfilaria in the patients' blood stream in the hope of preventing the infection of the mosquito of the vector species.

Field and laboratory investigations continued in Kenya and Tanganyika on schistosomiasis. Studies of guinea-

worm infestations were pursued in Nigeria. Virus diseases continued to be investigated in East and West Africa, Trinidad and Malaya. Trials of new chemotherapeutic drugs in Eastern Nigeria, East Africa and Malaya revealed diphenyl-thiourea as effective as diamino-diphenyl sulphone in the treatment of leprosy. Comprehensive therapeutic trials of isoniazid in combination with diamino-sulphone or para-aminosalicylic acid in pulmonary tuberculosis continued in East Africa where a field trial of a combination of isoniazid with thiosemicarbazone has indicated its therapeutic value and cheapness in the same disease.

The world-wide recession in commodity prices during the period under review had only a small effect on the colonial territories; the prices of most colonial products were either as high as or higher than in 1956. Economies of most territories remained buoyant.

Amongst the various crops reported on was that of pyrethrum. Kenya and Tanganyika together produced 4,097 tons, about 224 tons more than in the previous year. Exports of the extract amounted to 77 tons in 1957.



# The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

## Skirmishes and What They Portend

IF we describe as legal skirmishes the events in the Restrictive Practices Court on July 9 (see p. 52) it is with no intention of denigrating or belittling their importance, for there is no doubt that the Chemists Federation faces a most critical period—its very existence is at stake. Parliament has decided that all restrictive practices are contrary to the public interest, and only those which satisfy the Restrictive Practices Court that they merit exceptional treatment are being allowed to continue.

The Chemists Federation case is the first to come before the Restrictive Practices Court. There are no precedents to guide judge or counsel, and though the hearing on July 9 was held to settle certain technical points of procedure it gave some indication of the problems with which the Federation must deal during the fateful three weeks in October.

The fact that the Registrar is reported to be examining some thousands of products indicates the detailed evidence that may fall to be produced in Court.

It is disconcerting to note the Registrar's suggested intention of putting forward an opinion that only 5 per cent. of the products examined should be solely distributed by chemists, and that then the question will be whether it would cause harm for the remainder to be sold by others (e.g., grocers). Bearing in mind the decision of Parliament that only trained and certificated people shall be responsible for distributing certain potent substances (not amounting in volume of sales to anything near enough to support their distributors) and bearing in mind also the cost to the country and the individual of educating and training those qualified *personnel*—for each pharmacist represents a stake and an investment in the country's future—it is ironical that the first case in the Restrictive Practices Court may virtually undermine the right of the pharmacist to practice his profession. For if he is left with only Dangerous Drugs and Schedule 1 poisons the return will not be commensurate with the training.

## Skids off the Mobile Shops

FOLLOWING a recent decision in the High Court (*C. & D.*, July 12, p. 29), the legal and other executives of local authorities are seeking further clarification of the law on the trading hours of mobile shops. The Court ruled, it will be recalled, that a mobile shop did not come within the Shops Act, 1950. So far as pharmaceutical chemists are concerned, their position as authorised sellers of poisons is governed by the Pharmacy and

Poisons Act, 1933, and as sellers of proprietary medicines it is restricted by a High Court decision under the Pharmacy and Medicines Act, 1941, in which it was laid down that, in the context of the Act, a "shop" did not include a market stall consisting of a board and two trestles. Nevertheless, taken literally, the recent decision on mobile shops means that anyone not trading from a fixed site may sell what he likes when he likes, not only on Sundays but throughout the week, and that might create a type of competition with which the chemist would be powerless to cope. In some municipal circles it is considered "highly likely" that the High Court ruling related to Sunday trading only, a view based on the fact that the High Court was considering an appeal by a County Council from the dismissal of a summons for trading from a mobile shop on a Sunday. That view is reinforced by the Lord Chief Justice's reported remark that he had no doubt "that the Shops Act was intended to regulate and prohibit Sunday trading . . ." Whether that is so or not it is most unlikely that for the time being any Shops Act inspector will prosecute a mobile trader under the law as it stands.

The situation is one that cannot be allowed to continue, and new legislation is called for. The present Government's experience with proposals to amend the shops legislation was not such as to make it likely that new enactments will be rushed into, and legislation is unlikely to be forthcoming without a good deal of pressure from traders themselves. Any such pressure should have the full support of chemists as well as of local authorities.

## Onward from Galen

### A CURRENT CAUSERIE

AT an exhibition recently held at Charing Cross underground station, London, citizens were shown some of the postal difficulties caused by bad handwriting and incomplete addresses. The opening ceremony, which was attended by the mayor of Westminster and the Assistant Postmaster-General, included a letter-sorting contest. The idea seems a good one, capable of being applied elsewhere. Why not, for example, stage for private view a prescription-sorting contest, to be attended by, say, the Minister of Health and the president of the British Medical Association? It would provide excellent entertainment for a joint meeting of doctors and chemist-contractors, and might help to bring home to prescribers the difficulties and even dangers that may arise from illegibility or incompleteness.



THE customer who purchases a film and departs from one's pharmacy, dazed but the proud owner of an expensive cine camera, is only a dream of the young salesman (or of his older employer who should have developed a greater realism from experience). As a companion sale, the best a pharmacist can normally offer, perhaps, is the occasional medicine measure with a bottle of mixture or the guaranteed accurate clinical thermometer to a customer making rather large purchases of dressings. Both or either of those items may fairly be suggested to any bearer of an EC10, but looking further afield for companion sales I discovered that in the United States they cater rather better for such sales promotion. A pill box available in that country is equipped with jewels. There is also a built-in "reminder" alarm that I thought must be ideal for the patient liable to forget his next dose of tranquilliser, until I discovered that the retail price is \$275 (about £90). Until I have graduated to the super salesman class I must content myself with more modest "companions."



## “OPEN SHOP”

AN UNSCRIPTED COMMENTARY ON THE SPECIAL PROBLEMS OF THE PHARMACIST IN RETAIL PRACTICE

E. C. TENNER

“TO SEE OURSELVES AS OTHERS SEE US” is a desirable gift but only valuable if we are prepared to act to rectify the faults thus revealed to us. So close to our own routine do we continue to work unquestioning that it comes as a shock to be asked, as we may, “Why do it that way?” or “Why do it at all?” The way we react in business to critical questioning reflects our character and our chances of success. Every one has met those people who violently resent destructive criticism of the *status quo*, and those others who object even more strongly when such criticism is accompanied by constructive suggestions. Instead of being grateful for the inspiration to fresh thinking, planning and experimenting, their reaction is to attempt to show that the criticisms are based on ignorance of some peculiar difficulties and that they are anyway impertinent and useless, even sometimes ridiculous.

If we accept that it is no longer possible to conduct our business in accordance with the conditions that existed in the 'twenties, 'thirties and 'forties, we admit that business conditions are now always changing. From there it is but a short step to accepting that we must be prepared to change our methods continually to meet conditions that are changing at a faster and faster rate. Our “multiple” competitors have long been aware of the value of accepting that principle. They have set up special departments to observe and analyse every act and process in retailing. Scientific research after greater efficiency in distribution through retail shops is also being carried out by the British Productivity Council. It is called “work study,” and is done by specially trained staff, who approach the research entirely objectively and dispassionately. It may be imagined that a conservative vocation like pharmacy has much to learn about “itself.”

To me it seems that pharmacists, who are all, by vocational training, specially qualified to draw conclusions from observations, ought to gain more than a little advantage for themselves by personally conducting work-study researches into their own methods and shops.

The other day I was asked for my help in launching on the market a new proprietary medicine for which its manufacturers hope to capture a sizeable portion of a field already overcrowded with similar preparations. I was asked to stock and show and recommend the medicine. Membership of the Chemists Federation was in process of being applied for, and heavy advertising was about to break! I learned that the normal profit on the medicine when bought through a wholesaler was 25 per cent. on turnover, but better terms could be obtained by dealing direct with the manufacturer, with the drawback, however, that I had to lay in a comparatively heavy stock of the as yet unknown preparation. I am in no way opposed to manufacturers giving advantageous terms to purchasers of direct parcels. They ought, of course, to do that anyway as they cut out the wholesalers' profit from their own costs in such transactions and the retailer acts as his own wholesaler. What is so fundamentally wrong is that a manufacturer should expect to hire my capital, shop, good name and vocational skill and experience for a profit of 25 per cent. on turnover. Where did that 25 per cent. figure come from in the first place? It is an impertinence, in a world of rising costs, to suggest that a retail pharmacist's profit should continue to

be based on that quite unrealistic figure of 25 per cent. The advantages of C.F. membership should be denied to manufacturers who persist in trying to buy their retail distribution for the cut-profit figure of 25 per cent. Most pharmacists suffer from shortage of that expensive commodity capital, and must buy through wholesalers. The service they give needs at least a 33½ per cent. profit on turnover to pay their overhead expenses and show a reasonable margin of net profit. Each of us should take a firm stand against such meagre recognition of our services as specialist distributors, and refuse to accept such a degrading appraisal of our worth. Manufacturers should be shown that their prices must include a proper margin to cover our increased costs: they are always over-ready to impress *their* difficulties upon us.

To see one's own conclusions endorsed in authoritative quarters is always gratifying, especially when those endorsements are arrived at from starting-points different from one's own. I am thinking now of the interim report of the Hinchliffe Committee on the costs of prescribing. Every contractor chemist has always been asking for full pricing of all EC10's. Now it is recommended by the Committee that the Department should institute an investigation forthwith into the question of full pricing, because full pricing might facilitate the preparation of more accurate statistics for circulation to doctors and thus lead to economy. The Joint Pricing Committee affirmed that it could undertake full pricing without more staff and at no greater expense than under the present averaging system. Surely, therefore, the time has come for contractors to press more and more for the common justice of full pricing, quite apart from the Hinchliffe Committee's pressure to secure it for the sake of economy. Why on earth doesn't the Minister of Health cut the cackle and agree to full pricing forthwith, without further expenditure of time or money? The Committee also recommended that the law should be amended, if necessary, to compel manufacturers to indicate in literature circulated to doctors the *retail* price of the advertised product. I have repeatedly drawn attention to what I regard as the undesirable and misleading prices quoted in medical literature. Of course, the easiest price for the doctor to note and compare is the retail price. The present practice is the quotation of a “basic” price to which dispensing fee and oncost must be added, or the mere undefined statement of the cost perhaps per dose. Such figures are bound to confuse the reader, and I am left to surmise that the object of the price mention is really to persuade the doctor that the remedy is, willy-nilly, inexpensive. I expect the manufacturers will strongly object to the proposition of the Committee, but as a retailer I welcome it. Misunderstandings about prices are extremely bad for business, and for economy.

One other point from the report specially interested me. It was that the British Pharmacopœia Commission should be asked to review the principles on which the selection of approved names is based. That august body has yet to appreciate that it must abandon scientific principles if it wishes to invent “popular” names. I suggest that a good panel of publicity experts ought to be co-opted to the B.P. Commission for that particular job. We shall then see what we shall see!

# PHARMACEUTICAL SOCIETY OF IRELAND

## Monthly meeting of Council

A PROTEST from the Roscommon Branch of the West of Ireland Chemists' Association against the long delay in introducing the new Pharmacy Bill was considered by the Council of the Pharmaceutical Society of Ireland at its meeting in Dublin on July 8. Mr. Maurice Power (president) was in the chair, there were also present Messrs. H. P. Corrigan (vice-president), T. B. O'Sullivan, G. C. O'Neill, C. J. Cremin, J. P. Kissane, T. R. Miller, D. J. Kennelly, and Alderman M. L. Cashman. Apologies for absence were received from Miss L. Cunniffe, Messrs. F. J. Robinson, J. J. O'Regan, M. F. Broderick, A. A. Toher, M. Costello, V. McElwee, and K. Banks. THE PRESIDENT said that all members present were sorry to hear of the recent illness of Mr. F. J. Robinson, and sent him best wishes for a speedy recovery. The president also referred to the great loss Dr. Eoin Dowling, one of the Society's examiners, had suffered recently in the tragic deaths of his brother and nephew (see *C. & D.*, June 28, p. 681). To Dr. Dowling and to the wife and family of the late Mr. Dowling they extended deepest sympathy. Sympathy was also expressed with Miss Alice Esmonde, one of the Society's lecturers on the death of her uncle.

Visitors to the July examinations were appointed.

### *Approval for Representatives' Body*

Arising from the minutes the Council heard a report on the meeting between the honorary officers and the promoters of the proposed "Irish Pharmaceutical and Medical Representatives' Association" (see *C. & D.*, June 21, p. 666). Members of Council felt that the policy of the proposed Association was in accordance with their view that pharmacists should be employed as medical representatives and, subject to some alteration being made in the rules, the Council was satisfied with the aims and objects of the proposed new body.

A letter was read from the Minister for Health forwarding copies of the Medical Preparations (Advertisement and Sale) Regulations, 1958. THE REGISTRAR (MR. JAMES G. COLEMAN, B.L.), in reply to MR. MILLER said the Society had been consulted before the Regulations were made, and as a result a number of changes had been made. THE PRESIDENT said the matter was very satisfactory from their point of view.

The Senate Electoral Law Commission wrote enclosing a copy of a notice inviting memoranda of evidence on matters covered by the Commission's terms of reference. ALDERMAN CASHMAN said that undoubtedly the present system of election to the Senate did not fulfil the original hopes of the people, namely that it should be a body representative of the various vocations. The operation of the political whips made it impossible for the best types of vocational representatives to get into the Senate. Instead of an independent critical body they had a political "yes-men" body as a Senate. If they could put forward any evidence to change the existing system they would be doing good for the country at large.

### *The Society and the Senate*

MR. MILLER agreed, and MR. CREMIN said it was fantastic that Dail members should have a vote to elect Senators. Vocational bodies should have direct nomination to the Senate. MR. CORRIGAN supporting the views of Alderman Cashman, said he would like to see him give evidence as their spokesman. It was decided to inform the Commission that the Society considered that the present system of election did not give an opportunity to vocational bodies to be adequately represented in the Senate and that Alderman Cashman and Mr. Cremin should attend a meeting of the nominating bodies to consider suggestions for reforming the system.

MR. PATRICK M. GUERIN, M.P.S.I., Roscommon, wrote:

The Roscommon County branch of the West of Ireland Chemists' Association held a meeting at McDermott's Hotel, Ballaghaderreen, on July 1. Amongst other things the long-awaited Pharmacy Bill was discussed. The consensus of opinion was that the Pharmaceutical Society is not exerting enough pressure to have this Bill made law. It was proposed, seconded, and passed unanimously, that the members of our branch would withhold their annual subscriptions as a protest against the delay in getting this Bill passed. The other branches in Connacht are to be informed of our decision. As secretary I have been instructed to inform you of our action.

Apropos of Mr. Guerin's letter the registrar stated that the following letter dated July 7 had been received from the Department of Health:

The Minister for Health has asked me to refer to your letter of May 7 on the subject of the proposed Pharmacy Bill. With regard to the final paragraph of your letter, the Minister has asked me to say that the inclusion of a provision in the heads of the Bill dealing with the establishment of a Disciplinary Board has been deferred pending further consideration of the issues raised by the recent decision in relation to the Solicitors Act. The drafting of other heads of a Pharmacy Bill is being continued and will be concluded as quickly as possible.

MR. MILLER felt that the attitude of the Roscommon branch was unfair. The Council, he said, had worked extremely hard and had lost no opportunity to bring pressure upon the Department to proceed with the Bill, but had always received evasive answers. He suggested that instead of withdrawing their subscriptions, the Roscommon chemists should think of giving the Council a little practical and moral support. That would be more helpful. "They should be more loyal to their Society."

### *Rural Chemists' Viewpoint*

MR. O'NEILL said members must try to picture the frame of mind of the chemist in the country, who saw nothing but a spate of legislation adverse to his profession, such as the Fair Trade Commission, the Medical Advertisements Regulations, and even the polio vaccine business. He would be in the same position himself if he were not a member of the Council and aware of all they were trying to do. ALDERMAN CASHMAN said the average member of the Society in the city and the country did not realise how vigorous the Council was in pursuing the matter of a new Act. Mr. Guerin and the other pharmacists in Roscommon should realise that the Government initiated legislation and should accordingly bring pressure to bear on the Dail deputies by pointing out that the absence of pharmacy legislation was doing harm to the country, and preventing pharmacists from giving better service to the community. They should make their protest to their local T.Ds. "Short of going down and picketing the Department of Health with a flag we have done everything we could to get the Bill introduced."

MR. KISSANE also said chemists in the country did not appreciate what action the Council was taking in those matters.

MR. KENNELLY said he had the greatest sympathy with Mr. Guerin and his fellow chemists. Mr. Guerin's letter reminded him of when he himself was outside "on the ditch," so to speak. It was only when he became a member of the Council that he came to appreciate all the difficulties and snags they were up against. He was sure their members in Roscommon did not mean to be discourteous to the Council, but it was a method of drawing attention to the serious position all pharmacists felt was facing them at present. Retail pharmacy was in a serious state from the economic, professional, "and every other" aspect. Instead of withdrawing support from the Society they should follow the policy suggested by Alderman Cashman. In that whole matter the Government had treated them badly. For the

service they had given the country pharmacists were entitled to more consideration.

ALDERMAN CASHMAN thought that a national protest from pharmacists all over the country might help. MR. MILLER recommended a deputation to the Minister and MR. KENNELLY said he feared that the Pharmacy Bill which the Department was likely to produce to them would not be the kind of Bill they wanted.

It was decided to ask the two Dail members of the Council to take action on the matter, as well as on the suggestion of MR. CORRIGAN that representatives of the Council should meet and discuss the situation with the Roscommon chemists.

In conjunction with the letter from Roscommon the Council noted with particular interest the following letter from a County Galway Chemist:

"I was very surprised to read in this morning's paper that polio vaccines are now to be supplied to the well-to-do and millionaire population of the country at cut price by the Department of Health. Really, I think it's just going too far. I'd say that Mr. McEntee is giving way to some loud talk by Labour, but I think our point of view as ratepayers, taxpayers and chemists should also be put to the Department. I hope some form of protest will be made."

The writer mentioned that, when polio injections were being given in his area, quite a large number arrived by taxi and private car, and he had heard that 1,600 injections had been given. He thought the figure an exaggeration, but it would give an idea of the harm the State was doing to the chemist. "And now the rest are to have vaccine at cut price!"

The Council learned with pleasure that Dr. Richard Timoney (dean of the College of Pharmacy) had received a grant of 500 Deutschmarks from the *Deutscher Akademischer Austauschdienst* to visit pharmaceutical industries and pharmacy departments in several Universities in Western Germany. Arrangements were being made for visits to Chemie Gruenthal in Stalberg; Bayer, Leverkusen; Hoechst, Frankfurt; Merck, Darmstadt; and the Universities of Heidelberg and Munich. Dr. Timoney was also invited for a two- to three-day visit to Schering in Berlin.

In reply to a letter from the Council to the Department of Health it was stated that proper containers for medicinal substances were available at all dispensaries, and that the Minister would be prepared to take up the matter of the use of mineral water bottles for medicinal substances with the relevant local authority upon receipt of specific instances of such practice.

### Committee on Animal Remedies

Mr. D. MacKenzie (Glaxo Laboratories, Ltd.) wrote asking the Society to urge the Department of Agriculture to set up a Consultative Committee as provided for in the Animal Remedies Act. That Committee could examine importers' or manufacturers' problems, the main purpose being that, if a product and its labels were submitted to that Consultative Committee, they could give their approval or otherwise, and thus avoid continual arguments with Customs officials. The Council decided to go into the matter again at its next meeting. A letter was read and noted from Mrs. M. E. Solly Flood (chairman, Central Council of the Irish Societies for the Prevention of Cruelty to Animals) with reference to the sale by chemists of substances for the dehorning of cattle. In his reply, THE REGISTRAR stated "You will appreciate that it is not possible to impose restrictions on substances such as caustic soda or caustic potash, since those substances are used for a variety of purposes."

The following who submitted marriage certificates were granted change of name in the register: Mrs. Mary Darcy, *née* Jones (student), Mrs. Mary E. Harte, *née* Davey, L.P.S.I., Mrs. Bernadette McCann, *née* McCaffrey (student), and Mrs. Mary E. Maginn, *née* Lynch (Assistant), L.A.H. certificates were submitted by the following, who were granted registration as pharmaceutical chemists: Dr. Anant

Jagannath Shende, Poona, and Dr. Natwerlal Shivashanker Jani, Halol, India. Mrs. Mary Philomena Ryder's name was added to the Pharmaceutical Assistants' register.

The following changes of address were notified:—Mrs. M. E. Harte, L.P.S.I., to Café Cairo, Wine Street, Sligo. Mrs. M. E. Maginn, L.P.S.I., to 25 Dollymount Grove, Clontarf, Dublin. Frank Kerrin, Esq., L.P.S.I., to 22 O'Connell Street, Sligo. Brian Raftery, Esq., L.P.S.I., to 22 O'Connell Street, Sligo. W. P. Murphy, Esq., L.P.S.I., to 17 Ardpatrick Road, Skreen Road, Dublin. F. M. Smyth, M.P.S.I., to 414 Norwich Road, Ipswich, Suffolk.

The reports of the House, Schools, and Law Committees were submitted and approved. THE REGISTRAR reported on the death of Mr. Patrick J. Farrell, M.P.S.I.

The examiners to the First Professional examination reported that, of the thirty-five who entered twenty passed, two obtaining second-class honours. For Part 1 of the Licence examination the examiners reported that of the forty-three who entered ten passed, and twenty-five withdrew before completion of the examination.

MR. P. O'BRIAN (inspector) reported on recent visits made by him to various areas. The Licence certificates of Thomas A. McLoughlin and Kathleen T. O'Connor were signed and sealed.

The following were elected members of the Society: Messrs. James J. Corr, R. Counihan, Edward F. Gilmartin and George V. Lynch. The following pharmaceutical chemists were nominated for membership: Richard Cogan, Ballykilduff, Tullow, co. Carlow; Mrs. Catherine McCarthy, 16 Lisieux Park, Glasheen Road, Cork; Frank Kerrin, 22 O'Connell Street, Sligo; J. O'Sullivan, South Quay, Newcastle West, co. Limerick; and D. F. Ward, Main Street, Abbeyfeale, co. Limerick. At a meeting of the Benevolent Fund held at the close of the Council meeting grants totalling £109 were passed for payment.

## APPLYING FOR A JOB

### Some practical hints for the newly qualified

THAT first letter of application—is it going to place one at the top of the probables on the advertiser's desk or at the bottom of the impossibles in the waste basket? First impressions count for much, and a clear, clean, legible letter is a good start. A useful tip is to use at least two sheets of paper, the first for the letter (stating one's interest in the particular vacancy) and the second for personal details and qualifications. A typewriter ensures legibility but neat legible handwriting often demonstrates character. So, of course, does an illegible scrawl, but not in so favourable a fashion, and above all the most favourable consideration is cancelled out by an unreadable signature. Only essential data should be provided on sheet 2, putting first things first. Sports and hobbies, for example, may fall to be mentioned, but with due regard to proportion and precedence. An Olympic runner might attract attention where captaincy of the Little Galen football team would be less likely to be highly rated. Public service is often counted an asset, provided it is not interpreted as likely to clash with one's work.

During the 1939-45 war psychological testing of ability to show adaptability for particular work was a technique used by the Government, and there have been other attempts to devise systems whereby an estimation of personality and character provides the employer with a reasonably certain method of securing the services of the right man. Testing schemes are apparently gaining in favour in the United States. The applicant may be assured, however, that the worst he will usually have to face is a detailed personal history form along with one or more interviews, which may be with single persons or with small committees. One or two companies "short-list" candidates and base their choice on a one- or two-day session in the head office. Informal discussions within the group combine with leading questions from an examiner. The final choice is the candidate who comes out best on an assessment of many factors. To the unsuccessful applicant there is the consolation that the next advertisement may be offering the golden opportunity for which he is seeking.

## **persomnia - a vindication**

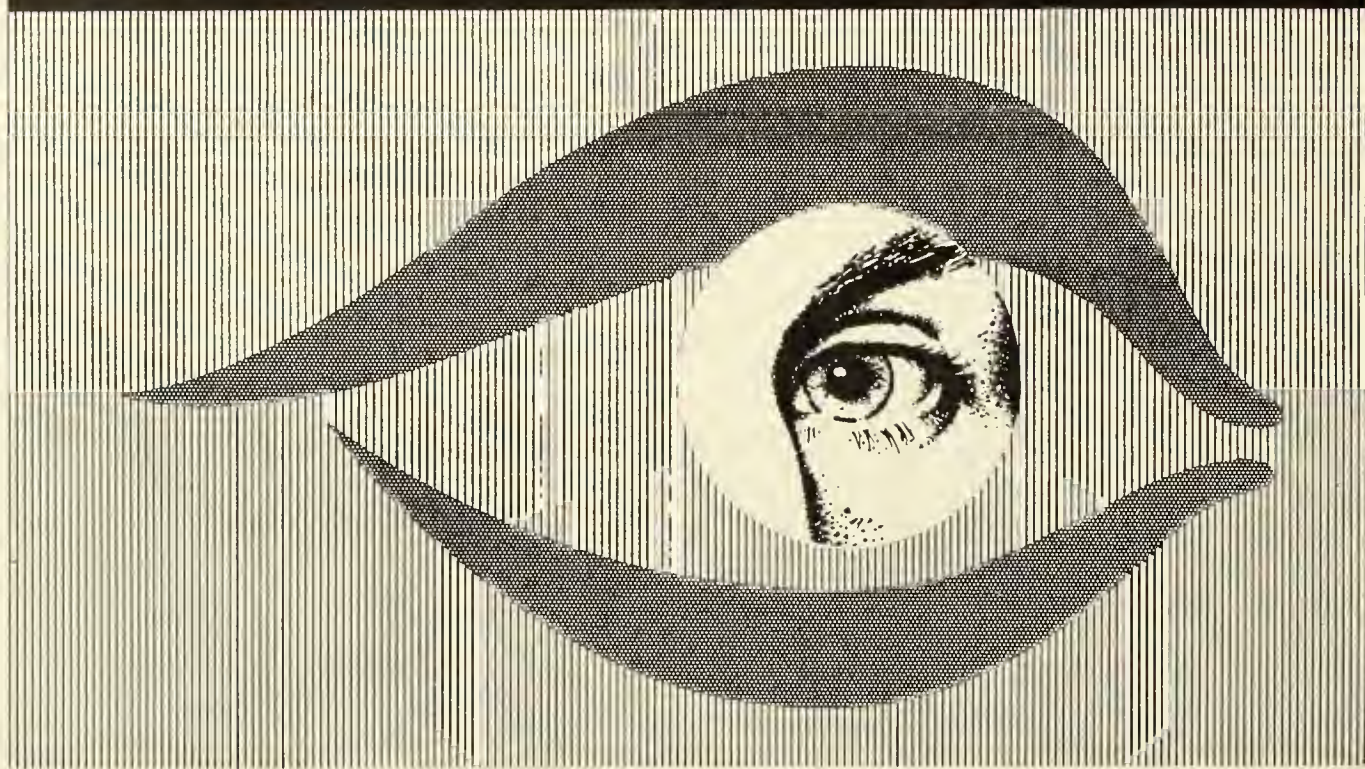
It has just been announced by the Home Secretary that the Poisons Board have adhered to their 1955 recommendation that preparations containing carbromal and bromvaletone should not be scheduled. This confirms our view that, properly used, carbromal and bromvaletone in general, and **persomnia** in particular, are among the safest drugs known.

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has been specially developed to make the topical use of ACHROMYCIN tetracycline in eye infections even simpler and more effective. The Oil Suspension offers optimal dispersion of the antibiotic; it diffuses rapidly into the conjunctival sac, has less effect on visual acuity, and provides longer-lasting antibiotic effectiveness. This new form of ACHROMYCIN is acceptable in every sense — to patient and physician alike. The new plastic dropper-type bottle makes accurate dosage easy, and the preparation is virtually free from side-effects. Because the product is so effective and simple to use, the patient can co-operate fully in following the treatment prescribed. That is why ACHROMYCIN Ophthalmic Oil Suspension 1% is now the treatment of first choice in many common forms of eye infection.

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## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 16: Trading in all markets remained at a low level during the week and prices consequently were scarcely tested. So far the partial relaxation of the Government's tight-credit policy has had no effect on buyers. Pharmaceutical manufacturers are believed to hold fairly large stocks of ASPIRIN and SALICYLATES from last winter.

SENEGA continued a weak market with shipment offers down to 12s. 6d. per lb., c.i.f., and spot offers at 15s. 6d. Among SPICES the shipment rates for CINNAMON quills were notably lower; TURMERIC was down by 2s. 6d. per cwt. and Jamaican GINGER by 20s. per cwt. for shipment (10s. down for spot), but CASSIA and PEPPER from all sources were firmer. Considerably higher shipment prices were being asked for SQUILL but there were no reports of any business being done at those rates. German buying of HONEY and not too plentiful supplies of the kind required, caused a firmer tone for Australian light and medium ambers. Argentine honey was also marked up by 7s. 6d. per cwt. but Jamaican and New Zealand were unchanged. MERCURY was £2 dearer per flask of 76-lb. on the spot. Moroccan CORIANDER SEED was advanced for shipment with sellers asking up to 45s. per cwt., c.i.f. (against 42s.).

British ALMOND OIL is now about 9s. per lb. against 8s. 3d. recently.

### Pharmaceutical Chemicals

ANURINE HYDROCHLORIDE.—1-kilo quoted at £13 7s. 6d. and 10-kilo lots at £13 per kilo.

ASCORBIC ACID. — Rate per kilo: 1 kilo, £4 18s.; 10 kilos, £4 16s. SODIUM ASCORBATE is offered at the same prices.

BORAX. — B.P. grade for quantities of 1 ton and upwards; Granular, £55; crystals, £57 10s.; powder, £58 10s.; extra fine powder, £59 10s. per ton. Supplied in hessian sacks. Prices of commercial range from £45 to £50 10s. per ton, as to type and packing. Dehydrated borax is £68 per ton in paper-lined hessian bags or £67 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

BORIC ACID. — Prices (per ton) for B.P. grade in quantities of 1 ton and upwards are as follows: — Granular, £89 10s.; crystals, £96 10s.; powder, £94; extra-fine powder, £96 per ton, in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical grades range from £75 10s. to £85 per ton according to type and packing.

BROMIDES.—Prices per lb. are as follows:—

|                 | 1 cwt. |    | 5 cwt. |    |
|-----------------|--------|----|--------|----|
|                 | s.     | d. | s.     | d. |
| POTASSIUM .. .. | 2      | 6  | 2      | 5  |
| SODIUM .. ..    | 2      | 6  | 2      | 5  |
| AMMONIUM .. ..  | 2      | 10 | 2      | 8½ |

The prices quoted are for crystals (powder is 1½d. per lb. more) packages free, carriage paid terms. The kilo rates for 50-kilo lots are 5s. 6d. for potassium and sodium and 6s. 3d. for ammonium.

CALCIFEROL.—B.P. is 3s. 2d. per gm. for 1-kilo lots.

CALCIUM PANTOTHENATE.—Price per kilo is £11 12s. 6d.

CHLORAL HYDRATE. — In 1-cwt. lots the price is about 4s. 3d. per lb.

CYANOCOBALAMIN. — 10-gm. lots are £63 7s. 6d. per gm., and 1 gm. £65.

DICOPHANE (DDT).—Prices are as follows:—1-cwt. lots 3s. 2d. per lb.; 5-cwt. 3s. 0½d.; 1-ton, 2s. 11d.

DIPHENAN.—Prices range from 55s. 3d. (56-lb.) to 63s. (1-lb.) per lb.

EPHEDRINE. — ALKALOID, is nominally 6s. 6d. per oz.; SULPHATE, 4s. and HYDROCHLORIDE, 3s. 3d. per oz.

ERGOMETRINE. — For 20-gm. lots the price of the MALEATE, B.P. is £17 10s. per gm. and the TARTRATE, £16 5s. per gm.

FOLIC ACID.—B.P. and U.S.P. are offered on the spot at about 4s. per gm. in 1-kilo lots.

GLYCERIN.—Rates for pharmaceutically pure are as follows:—

| Annual purchases or spot lots of | Under 1 cwt. |    | 1 cwt. and under 5 cwt. |    | 5 cwt. and under 1 ton |    | 1 ton and under 5 tons |    | 5 tons and under 25 tons |    |
|----------------------------------|--------------|----|-------------------------|----|------------------------|----|------------------------|----|--------------------------|----|
| Per cwt.                         | s.           | d. | s.                      | d. | s.                     | d. | s.                     | d. | s.                       | d. |
| TINS                             |              |    |                         |    |                        |    |                        |    |                          |    |
| 14-lb.                           | 241          | 0  | 236                     | 6  | 232                    | 6  | 228                    | 0  | 225                      | 6  |
| 28-lb.                           | 239          | 0  | 234                     | 6  | 230                    | 6  | 226                    | 0  | 223                      | 6  |
| 56-lb.                           | 235          | 0  | 230                     | 6  | 226                    | 0  | 222                    | 0  | 219                      | 6  |
| DRUMS                            |              |    |                         |    |                        |    |                        |    |                          |    |
| 1-cwt.                           | —            |    | 214                     | 6  | 210                    | 6  | 206                    | 0  | 204                      | 6  |
| 2½-cwt.                          | —            |    | 211                     | 6  | 208                    | 0  | 203                    | 6  | 202                      | 0  |
| 5-cwt.                           | —            |    | —                       |    | 207                    | 6  | 203                    | 0  | 201                      | 6  |
| 10-cwt.                          | —            |    | —                       |    | 206                    | 0  | 202                    | 6  | 201                      | 0  |

For 25 tons and upwards the price is from 200s. to 225s. 6d. as to containers. Bulk deliveries in tank wagons from 197s. 6d. to 198s. 6d. Pale straw industrial glycerin, s.g. 1.260, is 5s. per cwt. less than the above.

HOMATROPINE. — Current rates (per oz.) for 16-oz. lots are now: ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYPOPHOSPHITES.—Prices per lb. are:—

|                   | 7 lb. |    | 28 lb. |    | 1 cwt. |    |
|-------------------|-------|----|--------|----|--------|----|
|                   | s.    | d. | s.     | d. | s.     | d. |
| CALCIUM, B.P.C. . | 6     | 9  | 6      | 4  | 5      | 11 |
| IRON, B.P.C. .    | 13    | 9  | 13     | 3  | 12     | 9  |
| MAGNESIUM .       | 11    | 6  | 11     | 1  | 10     | 8  |
| MANGANESE, B.P.C. | 13    | 11 | 13     | 5  | 12     | 11 |
| POTASSIUM, B.P.C. | 9     | 3  | 8      | 10 | 8      | 5  |
| SODIUM, B.P.C. .  | 7     | 7  | 7      | 2  | 6      | 9  |

ICHTHAMMOL. — B.P. is from 2s. to 2s. 6d. per lb. in 1-cwt. lots as to origin and container.

IRON SALTS. — GLUCONATE, B.P.C., is 6s. 3d. per lb. in 1-cwt. lots; SULPHATE, B.P. crystals are 9½d. per lb. in 28-lb. lots; 1-cwt. is 57s. 6d. per cwt. and 5-cwt., 52s. 6d. per cwt.; SULPHATE EXSICCATED is 1s. 5d. per lb. for 28-lb., 1-cwt., 123s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. PHOSPHATE, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 9d. per lb.; 1-cwt., 3s. 6d. OXIDE, RED PRECIPITATED, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s. AMMONIUM CITRATE, scales, 6s. 6d. per lb.; granular, 5s. 9d. AMMONIUM SULPHATE, 1-cwt., 1s. 10d. per lb. QUININE CITRATE, 2s. 1d. per oz. in 100-oz. tin.

MENAPHTHONE.—B.P. is £11 per kilo; ACETOMENAPHTHONE, B.P., £11; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.), £15 per kilo.

NICOTINAMIDE. — Prices per kilo are now: 1 kilo, 90s.; 10 kilos, 87s. 6d.; 50 kilos, 85s.

NICOTINIC ACID. — Prices per kilo are 55s. for 1-kilo and 50s. for 50-kilo lots.

NIKETHAMIDE. — Prices per kilo are:— 1 kilo, 110s.; 50 kilos, 100s.

OXALIC ACID.—Manufacturers' rates for 1-ton lots are from £128 10s. per ton, delivered in free kegs.

POTASSIUM BICARBONATE. — B.P. powder is 110s. per cwt. 1-4-cwt. lots and 105s. per cwt. for 5 cwt. and over.

POTASSIUM BROMATE.—In 5-cwt. lots the price being asked is 5s. 3d. per lb.

POTASSIUM CHLORIDE. — In 1-cwt. lots B.P., is 1s. 6d. per lb.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 8d. per lb. and pellets, 5s. 1d.; technical flake, 1s. 4d.

POTASSIUM 8-HYDROXYQUINOLINE SULPHATE. — 1 kilo is 47s. 1d. and 50 kilos, 44s. per kilo.

POTASSIUM NITRATE. — Pharmacopœial quality is 100s. per cwt. (crystal or powder) in 1-cwt. lots.

POTASSIUM PERMANGANATE. — Current rate for B.P. material for 1-cwt. lots is 1s. 11½d. per lb. Technical is 204s. 6d. per cwt. and £193 10s. per ton.

POTASSIUM QUADROXALATE. — One-cwt. lots are 3s. 6d. per lb.

POTASSIUM SULPHATE.—One-cwt. lots are from 1s. 2d. to 1s. 3d. per lb.

POTASSIUM THIOCYANATE.—One-cwt. lots are 5s. 6d. per lb.

PROCAINE HYDROCHLORIDE.—100-kilo lots are about 45s. per kilo.

PYRIDOXINE. — Manufacturers' rate for 1 kilo is now £86 per kilo; 10 kilos, £84.

PYROGALLIC ACID. — Pure crystals are 22s. 6d. per lb. in 1-cwt. lots; resublimed, 24s. 3d.

QUININE. — Makers' rates for 1,000-oz. lots are now:—SULPHATE, B.P.C., 1932, 1s. 10d. per oz. SULPHATE, B.P.C., 1953, 2s. 0½d.; BISULPHATE, 1s. 10d.; DI-HYDROCHLORIDE, 2s. 4½d.; HYDROCHLORIDE, 2s. 6½d.; ETHYL CARBONATE, 4s. 3d.

RIBOFLAVINE. — Price (per kilo) is £18 10s. for 1-kilo and £18 5s. for 10-kilo lots.

SACCHARIN.—In lots of 1 lb. and over B.P.C. powder is quoted at 99s. 10d. per lb., the SODIUM SALT is 80s. 10d. per lb. Prices include duty and carriage.

STRYCHNINE. — Per oz.: ALKALOID, crystals, 8s. 3d. HYDROCHLORIDE, 8s. 4d.; SULPHATE, 7s. 3d.; NITRATE, 8s. 9d., all for 100-oz. lots in free containers.

TANNIC ACID.—The B.P. levis, ex ether is quoted at 9s. 9d. per lb. for 1-cwt. lots. The B.P. powder is 9s. 3d. per lb. in 1-cwt. lots.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are 15s. 9d. per lb.; 28 lb., 14s. 6d.

TEREBINTH.—B.P. is 2s. 3d. per lb.

VITAMIN A. — Synthetic. Supplied in strengths of 200,000 international units per gm. the price is 11½d. per million i.u. Natural is 1s. 4d. per million units.

VITAMIN D₂. — In oil, 2 million units per gm. the price is 2d. per million international units. Crystalline: see under calciferol.

VITAMIN E (synthetic). — TOCOPHERYL ACETATE, B.P.C., 10 gm. to 100 gm., 1s. 2d. per gm.; 100 gm. to 1 kilo, 1s. per gm.; 1 kilo and under 10 kilos, £45 per kilo; 10 kilos, £44 15s. per kilo.

### Crude Drugs

ACONITE. — Spot supplies of Spanish *napelus* are 2s. 6d. per lb.

AGAR.—Kobe is 11s. 3d. per lb., duty paid. New crop for July shipment, 9s. 2d., c.i.f.

ALOES. — Cape prime on the spot is 250s. per cwt.; shipment, 222s. 6d., c.i.f.

ANISE (STAR).—Chinese is 130s. per cwt. c.i.f. and 140s. spot in bond.

BALSAMS. — Quotations per lb. are:—CANADA: Spot, 25s. COPAIBA: Para from 8s. to 10s., duty paid. PERU: Spot, 11s. TOLU (genuine as imported): 24s. 6d.; B.P., 17s.

BELLADONNA.—Herb is 2s. 6d. per lb. on the spot. Root is 1s. 6d. spot; shipment, 1s. 3d., c.i.f.

CAMPHOR.—B.P. POWDER is from 5s. per lb., duty paid. TABLETS,  $\frac{1}{4}$ -oz. are 6s., in bond.

CAPRICUMS. — East African are from 150s. to 200s. per cwt. on the spot.

CASCARA.—Spot 1957 peel, 260s. per cwt. 1958 peel, July shipment, 205s., c.i.f.

CASSIA. — Selected whole bark for shipment is 187s. 6d. per cwt., c.i.f., and extra-selected broken, 182s. 6d., c.i.f. Spot: Whole 215s. in bond nominal. *C. fistula*, new crop, 110s. per cwt.

CHERRY BARK. — Thin natural is 1s. 5d. per lb., and rossed 1s. 11d.

CHILLIES. — Spot Mombasa are 160s. per cwt. and Zanzibar, 220s.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., OOOO, 6s. 9 $\frac{1}{2}$ d.; OOO, 6s.; OO, 6s. 7d.; seconds, 5s. 4 $\frac{1}{2}$ d.; featherings, 1s. 11 $\frac{1}{2}$ d.; quillings, 4s. 3 $\frac{1}{2}$ d.; chips, 11 $\frac{1}{2}$ d.

CLOVES. — Zanzibar on the spot are quoted at 3s. 2 $\frac{1}{2}$ d. per lb., shipment, 2s. 8d., c.i.f.

COCHINEAL.—Silver-grey Peruvian quoted 7s. 9d. per lb., c.i.f., spot; Canary Isles black-brilliant, 25s.; silver-grey, 18s. 6d.

COCILLANA.—Bark is 1s. 6d. per lb. on the spot.

COLOCYNTH PULP.—Spot, 3s. 9d. per lb., duty free.

DIGITALIS LEAF.—*Purpurea* (1956 crop), is offered at 1s. 2 $\frac{1}{2}$ d. per lb., c.i.f.; 1957 crop, 2s. 6d. to 2s. 7d., c.i.f.

ERGOT.—Portuguese is 5s. 6d. per lb., c.i.f., for prompt shipment and 6s. spot, American, 5s. 9d., spot.

GINGER.—African, 100s. per cwt. on the spot; new crop for shipment, 95s., c.i.f. Jamaican No. 3 on the spot is 305s. per cwt. July shipment (new crop), 250s., c.i.f.

GRINDELIA.—Herb is quoted at 2s. 6d. per lb.

GUM ACACIA. — Kordofan cleaned sorts are 132s. 6d. per cwt. on the spot; July shipment, 126s., c.i.f.

HENNA.—Indian is unobtainable on the spot.

HONEY. — Australian light-amber is 115s. 6d. to 120s. 6d. and medium amber 102s. 6d. to 107s. 6d. Argentine 132s. 6d. to 137s. 6d.; Jamaican 135s. to 140s.; New Zealand clover, 160s. to 170s.; all per cwt. on the spot.

HYDRASTIS. — Spot 31s. per lb.; forward, from 28s. to 29s. 6d., per lb., c.i.f.

HYOSCYAMUS.—Dutch leaves (*niger*), are 1s. 6 $\frac{1}{2}$ d. per lb., c.i.f., prompt shipment.

IPECACUANHA.—Colombian for shipment is quoted at 52s. 6d. per lb., c.i.f.; Matto Grosso, 54s., spot. Nicaraguan, no forward offers.

JALAP ROOT. — Spot cleared. A parcel to arrive quoted at 5s. per lb., c.i.f., basis 15 per cent.

KARAYA. — No. 1 gum on the spot is quoted at 220s. per cwt. and No. 2 at 150s.

KOLA NUTS. — Jamaican are offered at about 8d. per lb. spot, and 6 $\frac{1}{2}$ d., c.i.f. African 5d. to 5 $\frac{1}{2}$ d. spot and 4 $\frac{1}{2}$ d., c.i.f.

LANOLIN. — ANHYDROUS, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LIQUORICE. — Natural root: Persian to arrive is 45s. per cwt. Block juice: Anatolian, 200s. to 210s. per cwt., as to quantity. Italian stick from 310s. to 476s. per cwt. Spray-dried extract, 2s. 10 $\frac{1}{2}$ d. per lb.

LOBELIA HERB. — Spot offers are from 4s. 6d. per lb. as to origin. Dutch, 3s. 3d., c.i.f., for shipment.

MENTHOL.—Chinese is 51s. per lb., duty paid and 48s., c.i.f.; Brazilian, spot, 35s. 6d., duty paid, shipment, 33s., c.i.f. Formosan for shipment, 33s. 6d., c.i.f.

MERCURY. — Price per flask (76 lb.) is £78 on the spot.

NUTMEGS. — West Indian 80's, 17s. per lb., spot; sound unassorted, 13s. 6d.

ORANGE PEEL. — West Indian bitter quarters are 11d. per lb.; Spanish, 1s. 3d. to 1s. 6d. as to quality; thin-cut Tripoli, 2s. 3d.

ORRIS ROOT. — Florentine is 330s. per cwt. Short at origin.

PAPAIN. — Shipment (c.i.f.) value is 25s. per lb. for East African grade one.

PEPPER. — White Sarawak on spot is 2s. 7 $\frac{1}{2}$ d. to 2s. 8d. per lb., July–August shipment, 2s. 7 $\frac{1}{2}$ d., c.i.f. Black Sarawak is offered at 1s. 7d., spot, and July–August shipment at 1s. 7 $\frac{1}{2}$ d., c.i.f. Black Malabar is quoted at 220s. per cwt. on spot; July–August shipment 210s., c.i.f.

QUASSIA. — Chips on spot are offered at 55s. per cwt. and for shipment at 32s. 6d., c.i.f.

QUILLAIA.—Spot offers of whole bark at 165s. per cwt.; cut, 197s. 6d.; crushed, 200s. Whole for shipment, 115s., c.i.f.

RAUWOLFIA. — *Canescens*, 2s. per lb., c.i.f.; *Vomitoria*, 2s. 3d., c.i.f.; *Serpentina*, 6s., c.i.f. asked.

RHUBARB. — Chinese offering about 6s. per lb., as to quality. Best grades not available on spot.

SARSAPARILLA.—Jamaican native red on the spot is 2s. 5d. per lb. Shipment, 2s. 3d., c.i.f.

SEEDS. — (Per cwt.) ANISE. — Cyprian, 157s. 6d.; Spanish, 155s., duty paid. CARAWAY. — Dutch quoted at 85s. duty paid. CELERY.—Indian 175s. on spot. The shipment price is firm at 140s., c.i.f. CORIANDER. — Moroccan, 60s., duty paid. The shipment price is dearer with sellers asking up to 45s., c.i.f. CUMIN.—Cyprian on spot is 220s. shipment, Cyprian quoted at 200s., c.i.f., and Iranian, at 175s., c.i.f. DILL.—Indian offering at 70s. on spot. FENNEL.—Indian is 180s., spot; Chinese, 157s. 6d., duty paid. FENUGREEK. — Moroccan offering at 50s., duty paid. MUSTARD.—English 65s. to 75s. according to quality, with no bold quality available.

SENEGA.—Spot is 15s. 6d. per lb.; shipment, 12s. 6d., c.i.f.

SENNA. — *Timevelly* LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q., No. 3, 10d. PODS, manufacturing short at 1s. 6d. and hand-picked, 2s. 1d. to 2s. 4d. *Alexandria* pods: Manufacturing, offered from 1s. 6d. with hand-picked from 5s. to 6s.

SQUILL.—White is unobtainable on the spot. Shipment is nominally 65s. per cwt., c.i.f.

TONQUIN BEANS.—Para on the spot are offered at 8s. 6d. per lb. Shipment, 7s. 3d., c.i.f.

TURMERIC.—Madras finger is 60s. 6d. on the spot; shipment, 58s., c.i.f. quoted.

VALERIAN ROOT. — Spot: Indian (with rootlets) is 130s. and Belgian 175s. to 195s. per cwt. Dutch (max. 2 $\frac{1}{2}$  per cent. sand) for prompt shipment, 168s., c.i.f.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 25s. 3d.; 1-cwt., 25s. 6d.; 56-lb., 25s. 9d.; smaller quantities, 26s.

### Essential and Expressed Oils

ALMOND. — British oil is 9s. per lb. Moroccan, 6s. 9d., in bond.

ANISE.—Chinese, 8s. 4 $\frac{1}{2}$ d. per lb., spot; shipment, 7s. 9d., c.i.f.

CAJUPUT. — Spot supplies are from 10s. per lb.

CALAMUS.—Spot quotations are 62s. 6d. per lb.

CANANGA. — Spot is from 47s. 6d. to 50s. per lb.

CARAWAY.—English-distilled is offered at 55s. and imported from 26s. to 27s. 6d. per lb.

CASTOR. — Minimum charge for home-produced B.P. oil on the spot is £150 per ton naked ex mill. Forward delivery, £5 to £8 per ton less.

CEDARWOOD.—1-cwt. lots of American are 5s. per lb. and Kenya, 4s.

CELERY SEED. — Oil is 92s. 6d. per lb. for bulk lots.

COD-LIVER. — B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER. — B.P. oil is quoted from 70s. per lb.

CUMIN.—Quotations for English-distilled oil are about 90s. per lb.

DILL.—B.P. imported is 30s. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 4s. 9d. per lb. 80–85 per cent., 5s. 6d. Spanish (70–75), 4s. spot.

FENNEL.—Spanish sweet on the spot is quoted at 9s. 6d. per lb.

GINGER. — English-distilled oil is 160s. per lb. Imported: Jamaican, 130s.; Chinese, 100s. duty paid.

JUNIPER. — B.P.C. 1949 oil is from 9s. per lb. on the spot. English-distilled is 155s. JUNIPER WOOD, from 5s.

LAVANDIN.—Spot is from 10s. to 12s. 6d. per lb. for original drums.

LAVENDER.—French oil, 40–42 per cent. is at 50s. per lb.

LAVENDER SPIKE. — Spanish is at 15s. per lb. for original drums.

LIME.—West Indian distilled is in the region of 60s. per lb. on the spot.

OLIVE.—French is 21s. 6d. to 23s. per gall. on the spot, for B.P. quality.

OTTO OF ROSE. — Nominal. New crop reported a failure in Turkey.

PATCHOULI. — Penang is 27s. 6d., duty paid and 22s. 6d., c.i.f. per lb. Seychelles is quoted at 31s., spot.

PENNYROYAL. — Spot is quoted from 17s. 6d. per lb., duty paid.

PETITGRAIN. — Paraguay is offered at 19s. per lb. on the spot; 18s., c.i.f.

PIMENTO. — English-distilled berry is 180s. per lb.; imported, 75s. Rectified leaf, 27s. 6d. per lb. for small lots.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 25s.; Siberian (*abietis*), 12s. 6d.

SAGE.—Spanish is 8s. 6d. per lb.; Dalmatian, 37s. 6d.

SANDALWOOD. — Mysore offered from 75s. to 77s. 6d. per lb. as to source. East Indian 71s., spot.

### UNITED STATES REPORT

NEW YORK, JULY 15: The seasonal drop in certain DRUGS and FINE CHEMICALS continued. VANILLA BEANS advanced further because of short supply at the point of origin, and BOURBONS in tins are now \$11 a pound (up 45 cents). Higher per lb. among ESSENTIAL OILS were Florida expressed ORANGE OIL at \$2.05 (up 15 cents); SPEARMINT OIL at \$5 (up 20 cents); and SANDALWOOD OIL at \$13 (up \$1.35). Lower per lb. was Ceylon CITRONELLA OIL at 58 cents (down two cents).

## TRADE MARKS

### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," June 25

*For pharmaceutical and veterinary preparations* (5)

DIAPEC, 771,764, by Chas. Pfizer & Co., Inc., New York, U.S.A.

*For veterinary oils for cattle* (5)

PETTIFER'S GREEN OILS, 772,180, by Thomas Pettifer & Co., Ltd., Eydon, Rugby.

*For herbal medicines for cattle* (5)

PETTIFER'S HERBAL TONIC, 772,181, by Thomas Pettifer & Co., Ltd., Eydon, Rugby.

*For vaccines* (5)

POLIRIN, 772,212, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

*For pharmaceutical preparations and substances for use in the treatment of intestinal complaints* (5)

ENTERO-VIOFORM, 775,207, by CIBA, Ltd., Basle, Switzerland.

*For dietetic foods* (5)

BISKAVITE, 775,351, by Andomia Products, Ltd., Bradford, Yorks.

*For herbicides* (5)

TERVON, 776,342, by Profarma, Ltd., Wisbech, Cambs.

*For photographic apparatus; and lenses* (9)

MOVEXAR, 767,057, by Agfa, A.G., Leverkusen-Bayerwerk, Germany.

*For cinematographic, sound recording and sound reproducing apparatus and instruments; and cinematographic films prepared for exhibition* (9)

TRACTATION, 768,125, by Gareth Adamson, Newcastle-on-Tyne.

*For scientific apparatus and instruments, etc.* (9)

POLYSIL, 771,276, by James A. Jobling & Co., Ltd., Sunderland, Durham.

*For horticultural products* (31)

Device of word BISON, 761,393, by George Hamilton Boyle, Uppingham, Rutland.

*For foodstuffs for birds* (31)

GAYWING, 773,985, by Kathleen Joan Harte, Sevenoaks, Kent.

*For agricultural, horticultural and forestry products and grains; foodstuffs for animals; and malt* (31)

CAVILMA, 774,553, CAVIMAL, 774,559, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

From the "Trade Marks Journal," July 2

*For cleaning and polishing preparations* (3)

PLASTICLENE, B773,064, by Houseman & Thompson, Ltd., Newcastle-on-Tyne.

*For toilet soaps* (3)

EVER, 774,254, by Joseph Watson & Sons, Ltd., Leeds.

*For hair lotions* (3)

LUSTRIL, 774,324, by Vidux, Ltd., London, E.C.2.

*For detergents (not for use in industrial or manufacturing processes) and cleaning preparations* (3)

BIPASS, 775,627, by R. Toomer & Co., Ltd., Reading, Berks.

*For cleaning, polishing, scouring and abrasive preparations; detergents (not for industrial or manufacturing processes); and soaps* (3)

ZENASAN, 775,916, by Commercial Supplies Syndicate, Ltd., Derby.

*For pharmaceutical preparations for the treatment of asthma, bronchial and cardiac complaints and cerebral apoplexy* (5)

PROPHYL, 766,072, by Siegfried, A.G., Zofingen, Switzerland.

*For medicated preparations for the skin* (5)

ULTREN, 767,482, by Lloyd Hamol, Ltd., London, S.W.1.

*For pharmaceutical helminthic preparations for human and veterinary use* (5)

HELMACID, 772,143, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

*For erythrityl tetranitrate in tablet form for perlingual administration* (5)

CARDILATE, 772,387, by the Wellcome Foundation, Ltd., London, N.W.1.

*For infants', invalids' and dietetic foods; pharmaceutical preparations for addition to food-*

*stuffs; and veterinary preparations* (5)

AMAMA, 773,317, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

*For opootherapeutic preparations for human use* (5)

OPOTHIDS, 773,819, by Hormonex (U.K.), Co., London, E.C.3.

*For all goods, but not including insecticides or any goods of the same description* (5)

SUPRADYN, 774,471, by Roche Products, Ltd., Welwyn Garden City, Herts.

*For pharmaceutical preparations and substances* (5)

CECEKIN, 774,777, by Apoteksvaercentralen Vitrum, Apotekareaktiebolaget, Stockholm, Sweden. HYRUBAN, 776,160, by Boots Pure Drug Co., Ltd., Nottingham.

*For medicated preparations for external use by rubbing* (5)

MOD-O-RUB, 774,918, by J. & J. Ballard, London, S.W.17.

*For analgesics and pharmaceutical preparations for use as sedatives* (5)

ZACTIRIN, 775,118, by American Home Products Corporation, New York, U.S.A.

*For medicated sweets containing menthol and eucalyptus* (5)

Device with words HALLS MENTHOLYPTUS TABLETS FOR NOSE, THROAT AND CHEST, 775,151, by Hall Brothers (Whitefield), Ltd., Whitefield, nr. Manchester.

*For pharmaceutical preparations and substances for human and veterinary use, sanitary preparations, medical and surgical plasters and bandages* (5)

HY-FO, 775,220, by Desco Pharmaceutical Ltd., Brentwood, Essex.

*For all goods* (5)

BARBONESIN, 775,282, by The British Drug Houses, Ltd., London, N.1. NO SIREE, 775,768, by Airkcm, Ltd., London, W.1.

*For scientific, photographic, cinematographic and optical apparatus and instruments; etc.* (9)

ZEISSIKONETTE, 768,668, by Zeiss Ikon A.G., Stuttgart S., Germany.

*For surgical and medical apparatus, appliances and instruments* (10)

Device, 775,462, by Ellis Son & Paramore, Ltd., Sheffield.

*For surgical and medical apparatus and instruments and parts* (10)

Device with words CARLO ERBA MILANO SEZIONE APPARECCHI SCIENTIFICI, B773,521, by Carlo Erba S.p.A., Milan, Italy.

*For foodstuffs for birds* (31)

GAYLETS, GAYLEX, 775,235-36, by Kathleen Joan Harte, Sevenoaks, Kent.

From the "Trade Marks Journal," July 9

*For chemical substances for use in industry* (1)

SUPRASEC, 775,601, by Imperial Chemical Industries, Ltd., London, S.W.1.

*For chemical products for use in industry; and for plastics* (1)

AERAXTONE, 775,731, by Aerastone, Ltd., Winsford, Ches.

*For all goods* (3)

PRIMITIF, 772,992, by Max Factor & Co., Los Angeles, California, U.S.A.

*For perfumes; non-medicated toilet preparations and aromatic substances for use in the manufacture of perfumes and perfumed articles* (3)

ABRAC, 773,623, by A. Boake, Roberts & Co., Ltd., London, E.15.

*For preparations in solution form for permanently waving the hair* (3)

CONTACT, B774,120, by Rilling-Hills, Ltd., London, S.E.1.

*For toilet soap* (3)

DAWN, 774,873, by Thomas Hedley & Co., Ltd., Collingwood, Newcastle-on-Tyne.

*For polishes* (3)

DOVE COTE, 775,760, by Evode, Ltd., Stafford.

*For hair dyes* (3)

CLAIROLINE, 776,109, by Kleinol-Produktion, G.m.b.H., Hamburg, Germany.

*For sanitary substances and deodorants* (5)

DE-OL, 771,553, by Domestos, Ltd., Newcastle-on-Tyne.

*For pharmaceutical preparations for internal use* (5)

ERGANAL, 773,627, by The British Drug Houses, Ltd., London, N.1.

*For all goods* (5)

EPISOL, 773,841, by the Crookes Laboratories, Ltd., London, N.W.10. RAINBOVITE, 774,483, by Medo-Pharma, Ltd., Richmond, Surrey. ODO-MATIC, 775,606, by Northam Warren, Ltd., London, S.E.1.

*For preparations for deodorising the air* (5)

REVILLAIRE, 774,127, by Richard Harvey Richards, Manchester.

*For pharmaceutical preparations* (5)

WAMPOLE, B774,317, by Henry K. Wampole & Co., Ltd., Perth, Ontario, Canada.

*For disinfectants and deodorants (not for personal use)* (5)

Device with word TEALS, 774,684, by Pctama Polishes, Ltd., Ipswich, Suffolk.

*For pharmaceutical preparations and substances* (5)

ZELST, 774,916, by J. & J. Ballard, London, S.W.17.

*For pharmaceutical substances for human and veterinary use; and sanitary substances and disinfectants* (5)

RISTON, 775,820, by Imperial Chemical Industries, Ltd., London, S.W.1.

*For insecticides, fungicides and weed-killing preparations* (5)

PILOX, 776,007, PILONE, 776,009, by Plant Protection, Ltd., Yalding, Kent.

*For hearing aids for the deaf and parts* (10)

AURALTONE, B756,954, by Aural Appliances, Ltd., London, W.1.

*For hair brushes, tooth-brushes and holders, combs, sponges, etc.* (21)

SWEEP, 758,135, by Sooty Concessions, Ltd., London, E.C.4.

*For brushes, mops and powder puffs; and holders, being domestic containers made of plastics for all the aforesaid goods* (21)

TULIP, 774,110, by Garratt & Garratt, Ltd., Kingston-on-Thames, Surrey.

*For brushes* (21)

RONDO, 775,677, by Wedding Photo Co. (London), Ltd., London, N.W.3.

*For vacuum flasks* (21)

MIVAC, 776,419, by the British Vacuum Flask Co., Ltd., London, W.C.1.

## WILLS

MR. H. E. BESWICK, M.P.S., 11 Blackburn Road, Clayton-le-Moors, Lanes, left £13,834 (£13,744 net).

MR. W. GARTSIDE, M.P.S., 14 Nanabeen Road, Folkestone, Kent, left £1,615 (£1,570 net).

MR. A. E. HOBBS, M.P.S., 163 Upper Grosvenor Road, Tunbridge Wells (a former president of the Kent County Pharmaceutical Association), left £7,410 (£7,309 net).

MR. G. F. MERSON, M.P.S., 7 Cumin Place, Edinburgh, left £23,593.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

### Sunday, July 20

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, CRICKET SECTION, Oxford. Match with A. C. Nielsen Co., Ltd.

### Monday, July 21

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Nottingham University. International High-polymer Conference. (Until July 24.)

### Wednesday, July 23

LONDON CHEMISTS' GOLFING SOCIETY, Finchley golf club. Fixture.  
WEST HERTFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Goya, Ltd., Amersham, Bucks. Works visit.

### Advance Information

BRITISH INSTITUTE OF MANAGEMENT, Brighton, November 26-28. National conference: Theme: "The Challenge of Change."

## COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies. Where known, the number of appearances of the product during the week is shown in parentheses.

### July 27 - August 2 LONDON

Amami wave set (2). Arrid Roll-on (3). Alka-Seltzer. Aspro. Bristow's shampoo (2). Brylcreem. Cooper's aerosols. Damaskin. Delsey (2). Digestif Rennies (4).

Eno's Fruit Salt (3). Flit press-button spray. Frozoclon. Ingram's shaving cream (2). Iron Jelloids (2). Knight's Castile soap (4). Kodak cameras (3). Lucozade (12).

Maclean's indigestion remedies (2), tooth-paste (2). Max Factor crème puff (2). Mix-a-shake (2). Nervone (2). Optone. Pepsodent (4). Phillip's magnesia tooth-paste. Phensic (3). Prom (3). P.L.J. (2). Ribena (3).

Silvikrin pure, leaf shampoo, hair cream. Sprinkleen. Sun-orange Quosh (3). S.R. tooth-paste. Twink (3). Yeast-Vite.

### MIDLAND

Amami wave set (2). Arrid Roll-on (3). Alka-Seltzer (2). Beecham's powders. Bristow's shampoo (3). Brylcreem (2). Cooper's aerosols. Digestif Rennies.

Eno's Fruit Salt. Flit press-button spray. Germolene (4). Ibcot (3). Ingram's shaving cream (3). Knight's Castile soap (7). Kodak cameras (3). Lucozade (2).

Maclean's indigestion remedies (2), tooth-paste (2). Max Factor crème puff (2). Mellajuce products. Mix-a-shake (2). Moorland's indigestion tablets. Meggeson's dyspepsia tablets (2). Pepsodent (4). Phensic (3). Prom (3). P.L.J. (2). Quickies (2). Ribena (3).

Silvikrin leaf shampoo, hair cream. Sprinkleen. Sun-orange Quosh (2). S.R. tooth-paste (3). Twink (3). Yeast-Vite. Zoflora.

### NORTHERN

Airwick (2). Amami wave set. Arrid Roll-on (3). Alka-Seltzer. Astral cream. Beecham's pills (2). powders (2). Bristow's shampoo (3). Brylcreem (2). Carter's little liver pills. Cephos (4). Delsey. Digestif Rennies (4). Dinneford's. Drummer products.

Eno's Fruit Salt (3). Flit press-button spray. Fynnon salt (2). Germolene (3). Hiltone (2). Ibcot (3). Ingram's shaving cream (3). Knight's Castile soap (7). Kodak cameras (3). Larson's Swedish milk diet. Lucozade (2).

Maclean's indigestion remedies (3), tooth-paste (2). Max Factor crème puff (2). Mix-a-shake (2). Moorland's indigestion tablets. Meggeson's dyspepsia tablets (2). Optabs. Pepsodent (4). Phensic (3). Phosferine (3). Phyllosan (2). Prom (3). P.L.J. (4). Ribena (2).

Silvikrin leaf shampoo, hair cream. Setlers (2). Sprinkleen. Sun-orange Quosh (3). Sunilk shampoo. Twink (4). Vosen shampoo (3). Vaseline hair cream (3). Yeast-Vite (2). Zoflora.

### SCOTLAND

Amami wave set (2). Askit (7). Alka-Seltzer (2). Beecham's powders (2). Bristow's shampoo (2). Brylcreem (3). Delsey (2). Dinneford's (2).

Eno's Fruit Salt. Kodak cameras (3). Lucozade (3).

Maclean's indigestion remedies (2), tooth-paste (2). Max Factor crème puff (3). Pepsodent (7). Phensic (3). Prom (3). P.L.J. (3).

Silvikrin leaf shampoo. Sun-orange Quosh (2). Simpkin's products. S. R. tooth-paste (7). Twink (3). Vapex. Vosen shampoo. Yeast-Vite.

### WALES

Alka-Seltzer (3). Beecham's pills (2). Bristow's shampoo (2). Brylcreem (2). Delsey (3).

Eno's Fruit Salt. Germolene (4). Hiltone (2). Ibcot (3). Knight's Castile soap (6). Kodak cameras (3). Lucozade (2).

Maclean's indigestion remedies, tooth-paste (3). Max Factor crème puff (3). Pepsodent (4). Phillip's magnesia tooth-paste (4). Phyllosan (2). Prom (3). P.L.J. (2).

Silvikrin pure, leaf shampoo (2). Sun-orange Quosh (2). S.R. tooth-paste (3). Twink (3). Yeast-Vite.

## PRINT AND PUBLICITY

### PUBLICATIONS

#### Booklets and Leaflets

ALBRIGHT & WILSON, LTD., 1 Knightsbridge Green, London, S.W.1: "Facts About Albright and Wilson" (illustrated booklet in colour). Also available in German.

#### Catalogues

AAGRUL CHEMICAL WORKS, LTD., Groningen, Holland: Pesticides. Pp. 8.

AGFA, LTD., 27 Regent Street, London, S.W.1: Agfacolor. Pp. 21. Cameras and equipment. Pp. 27. Films. Pp. 6. Photographic papers and developers. Pp. 10.

APPARATUS AND INSTRUMENT CO., LTD., Vineyard Path, Mortlake High Street, London, S.W.14: Catalogue.

JACOB, WHITE & CO., LTD., 324 Upper Street, Islington, London, N.1: Loose-leaf file, pp. 50. L. LIGHT & CO., LTD., Poyle Trading Estate, Colnbrook, Slough, Bucks: Organic chemicals 1958.

PULLIN OPTICAL CO., LTD., Electrin House, 93 New Cavendish Street, London, W.1: General photographic catalogue, 1958.

#### Price Lists

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2: 1958 list.

AGEA, LTD., 27 Regent Street, London, S.W.1: 1958 list.

CAMBRIDGE INSTRUMENT CO., LTD., 13 Grosvenor Place, London, S.W.1: Electrical instruments (163/1).

CONTINENTAL LABORATORIES, LTD., 101 Great Russell Street, London, W.C.1: Trade price list, Pp. 4.

GEIGY PHARMACEUTICAL CO., LTD., Roundthorn Estate, Wythenshawe, Manchester, 23: 1958 list.

GLAXO LABORATORIES, LTD., Greenford, Middlesex: Antibiotics and penicillin, June 1958.

LLOYD'S PHARMACEUTICALS, LTD., 11 Waterloo Place, London, S.W.1: May 1958 (card).

LEDERLE LABORATORIES DIVISION, CYANAMID OF GREAT BRITAIN, LTD., Bush House, Aldwych, London, W.C.2: Biological and pharmaceutical



"BUILD-UP" PACKS: The domestic packs for the new range of Pan Britannica fertilisers (flower, tomato, rose and lawn) have been specially designed to break away from traditional gardening-aid packaging. Printed in full colour, the new cartons portray the item the contents are designed to treat and also achieve powerful visual impact. One side of the pack uses build-up principle and depicts roses, flowers, and tomatoes "growing" against a white background, while other sides are printed in black for colour contrast. One pack (lawn fertiliser) when stacked forms a composite picture of house, lawn, gate and brick wall. Manufacturers are Pan Britannica Industries, Ltd., Waltham Abbey, Essex.

products. March 1958. Also three additional pages for loose-leaf list.

NORTH STAFFS PHOTOGRAPHIC SERVICES, Bull's Yard, Newcastle, Staffs: Photopia catalogue 1958, Pp. 96.

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: 1958 list.

SANGERS, LTD., 258 Euston Road, London, N.W.1: Monthly additions and alterations, June 1958.

## C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; \* = Tax 30 per cent.; † = Tax 60 per cent.

### DIMOL LABORATORIES, LTD.

|                       | Doz. | I.R.P. |
|-----------------------|------|--------|
| Dimol tablets "B" 100 | 40 0 | 6 0 R  |
| syrup* 4 oz.          | 28 6 | 4 0 R  |
| 16 oz.                | 72 0 | 10 0 R |

### GARDNER CO. (LONDON), LTD. (from July 14)

|                                              |       |
|----------------------------------------------|-------|
| Atomist polythene travelling spray No. P/202 | 5 0 R |
|----------------------------------------------|-------|

### P.A.T.A. LIST

#### ADDITIONS TO THE LIST

### E. R. SQUIBB & SONS, LTD. [Corrected notification]

|                           |       |       |
|---------------------------|-------|-------|
| Adcortyl tablets          | Each  |       |
| 4 mgm. 100                | 120 0 | 180 0 |
|                           | Doz.  |       |
| Nystatin oral tablets 100 | 600 0 | 75 0  |

### NEW PRODUCTS AND PACKS

### BURROUGHS WELLCOME & CO.

|                          |      |
|--------------------------|------|
| Trivexin vaccine 250 mls | 50 0 |
|--------------------------|------|

### COTY (ENGLAND), LTD.

|                    |     |
|--------------------|-----|
| Coty toilet water† |     |
| handbag phial      | 5 9 |

### GERMAN ETHICALS

|                      |      |
|----------------------|------|
| Nicopyron tablets 20 | 12 9 |
|----------------------|------|

### GNOME PHOTOGRAPHIC PRODUCTS, LTD.

|                                 |       |
|---------------------------------|-------|
| Gnome Alphax 35-m.m. projector* | 377 6 |
|---------------------------------|-------|

### GOYA, LTD.

|                           |     |
|---------------------------|-----|
| Goya soap* 3-oz. tablet   | 1 9 |
| flower soap* 3-oz. tablet | 2 0 |
| bath size                 | 3 0 |

### HAETAM, LTD.

|                    |  |
|--------------------|--|
| Fabulo hair curler |  |
| size 1 6 15 10 2 6 |  |
| size 2 5 15 10 2 6 |  |

### HANIMEX (U.K.), LTD.

|                   |       |
|-------------------|-------|
| Argus Colorviewer | 115 0 |
|-------------------|-------|

### HARGO PHOTOGRAPHIC ACCESSORIES

|                                     |     |
|-------------------------------------|-----|
| (distributors, PHOTO SCIENCE, LTD.) |     |
| Dustmaster cleaning cloth           | 2 6 |

### LAUGHTON & SONS, LTD.

|              |            |
|--------------|------------|
| Twinco chest | 142 0 19 6 |
|--------------|------------|

### LENTHERIC, LTD.

|                    |      |
|--------------------|------|
| Tweed Tan† aerosol | 10 6 |
|--------------------|------|

### NEVILLE BROWN & CO., LTD.

|                            |       |
|----------------------------|-------|
| Ferranicolor reversal film |       |
| "increased speed"*         |       |
| 35 mm.                     | 16 0  |
| refill                     | 12 6  |
| F20                        | 12 10 |
| 620                        | 12 10 |
| 527                        | 12 6  |

### PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD.

|                       |              |
|-----------------------|--------------|
| Streptotriad granules | Each 5 0 7 6 |
|-----------------------|--------------|

### PHILLIPS TELESCOPIC TAPS, LTD.

|          |      |
|----------|------|
| Roma Rol | 8 11 |
| refill   | 1 2  |

### SAVILLE PERFUMERY, LTD.

|                             |      |     |
|-----------------------------|------|-----|
|                             | Doz. |     |
| Top-to-toe fragrance† 2 oz. | 28 6 | 5 0 |
| 4 oz.                       | 42 9 | 7 6 |
| Perfume stick†              | 28 6 | 5 0 |



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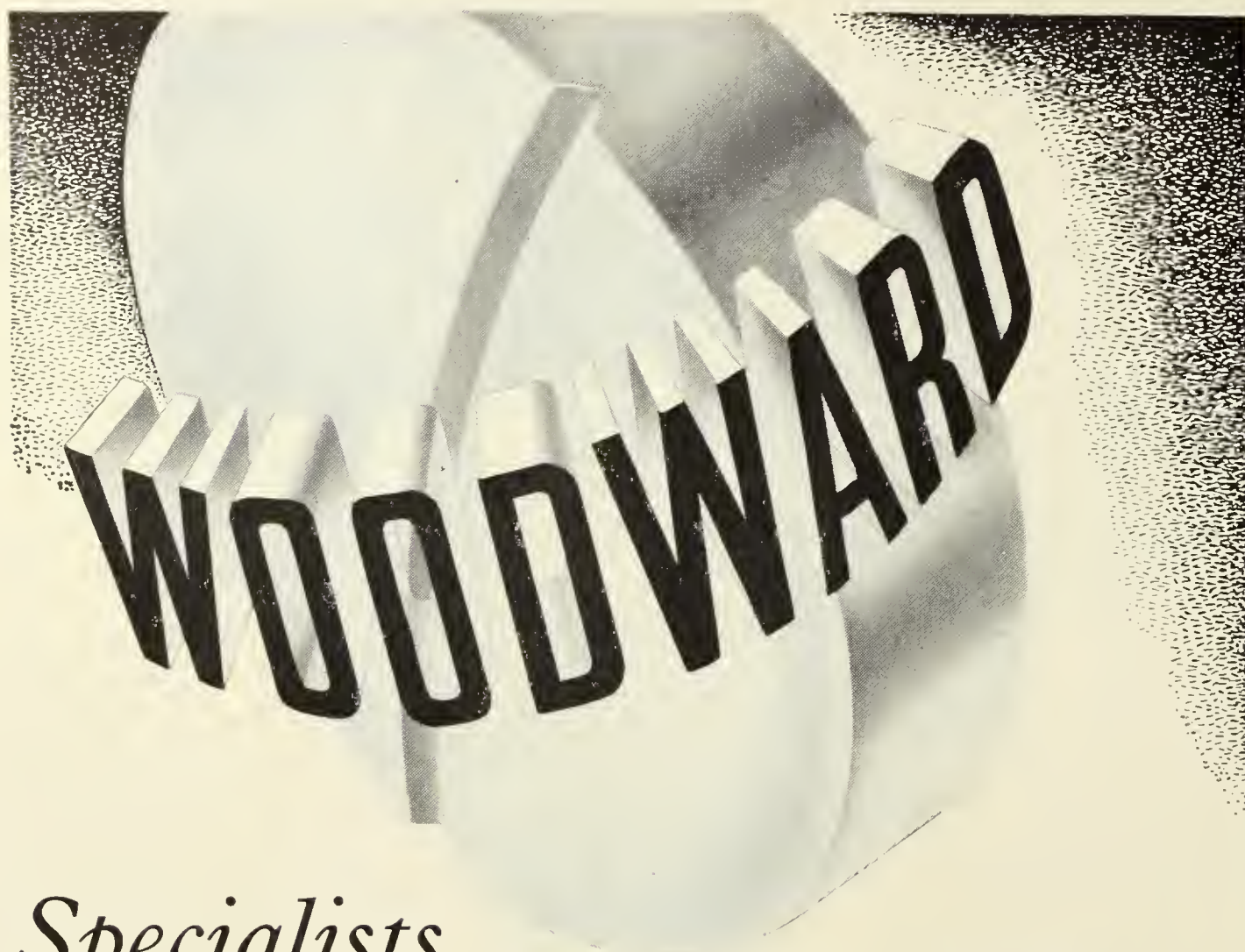
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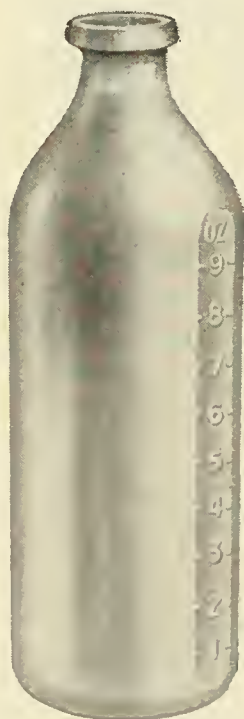
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Narrow Neck  
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## THE ORIGINAL POLYTHENE FEEDING BOTTLES

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Dual Purpose  
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*The BIOLOGICAL treatment for most intestinal, para-intestinal, kidney and bladder infections*

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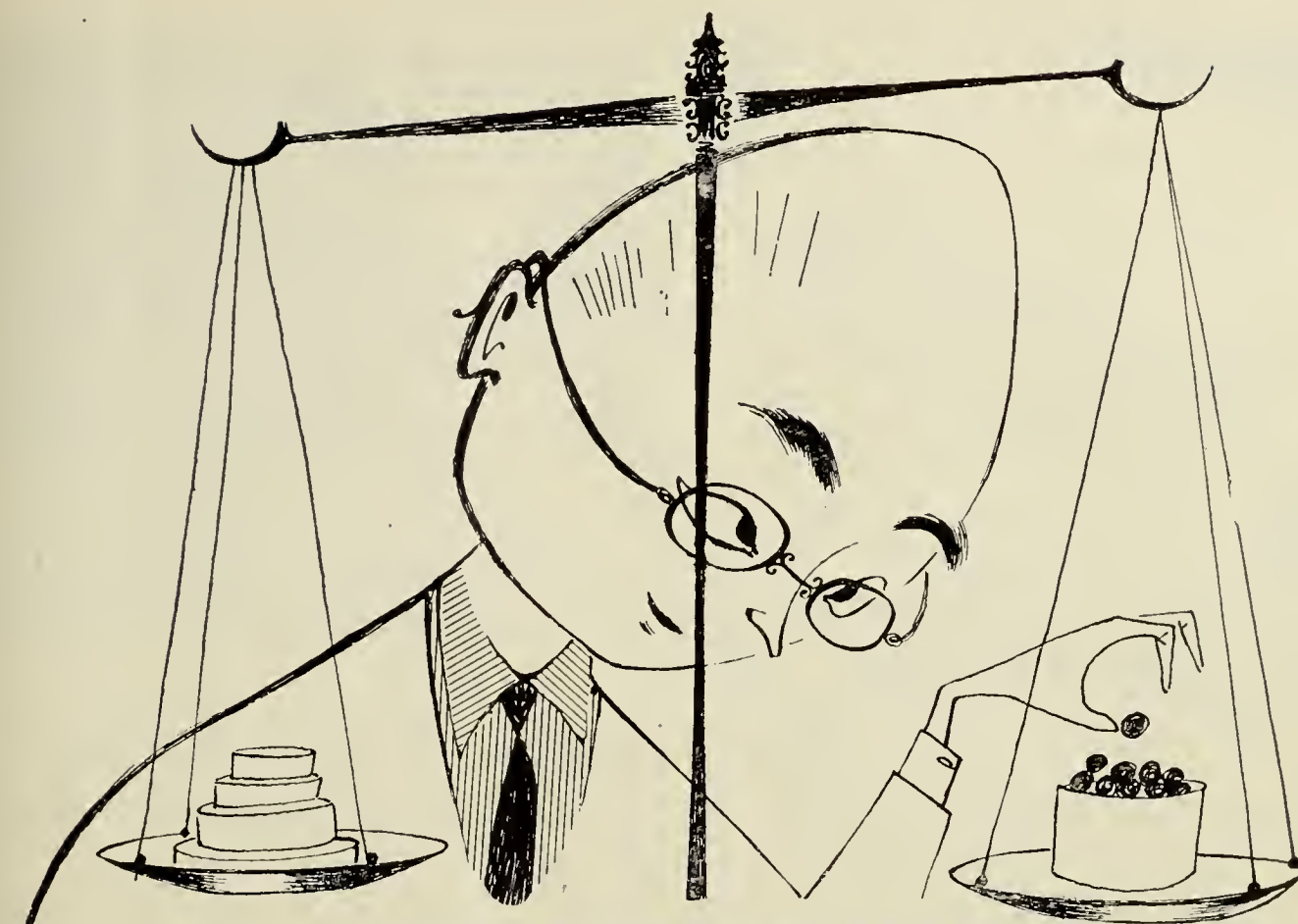
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'DISTIVIT' brand vitamin B<sub>12</sub> peptide complex, backed by clinical investigation,\* is an oral preparation that is efficiently absorbed and which restores the normal blood picture in pernicious anaemia as effectively and consistently as does crystalline vitamin B<sub>12</sub> administered by the parenteral route.

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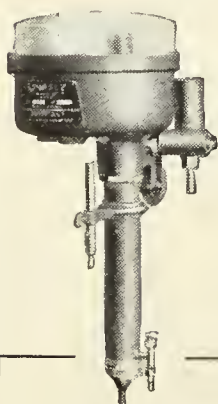
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\* "The Oral Treatment of Pernicious Anaemia: A New Approach" —Lancet (1958), 1, 982.

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3 pints  
per hour

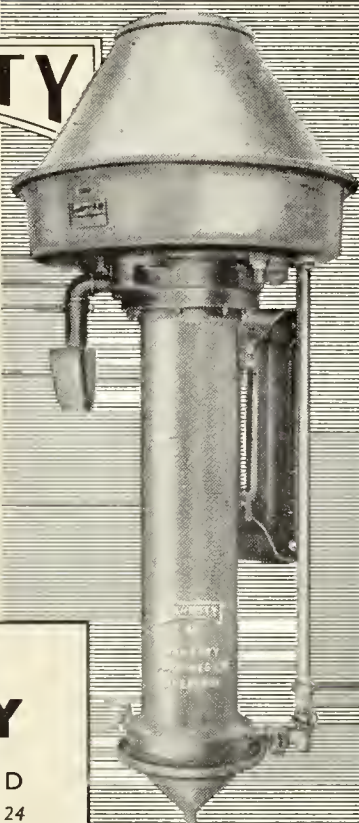
**4B  
STEAM  
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Output  
50 gallons  
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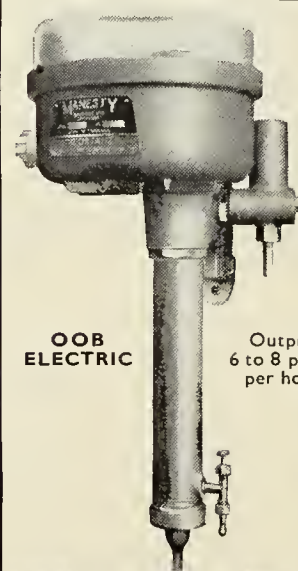
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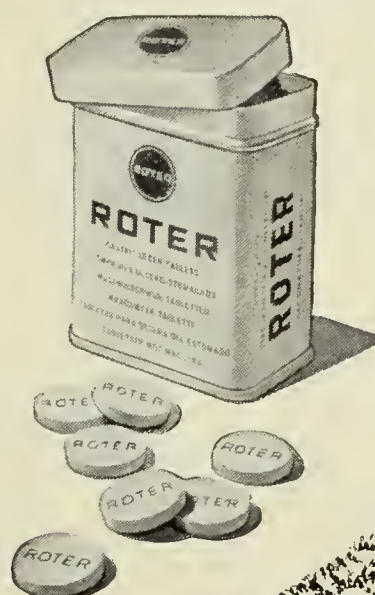
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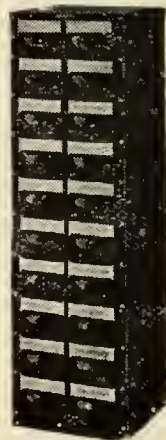
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### APPOINTMENTS

**BETHNAL GREEN HOSPITAL,  
CAMBRIDGE HEATH ROAD,  
LONDON, E.2**  
Locum Pharmacist

Salary up to 16 guineas a week. Apply to Hospital Secretary. Tel.: ADV. 3413. C 397

### CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

**Senior Pharmacist and Pharmacist** required at Bethnal Green Hospital (350 Acute beds). The department has recently been modernised and is approved for training students. N.H.S. Scale within the range £680-£870 for Senior Pharmacist and £600-£815 for Pharmacist, plus appropriate higher qualification allowance. Apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 344

### CANTERBURY GROUP HOSPITAL MANAGEMENT COMMITTEE

**Deputy Chief Pharmacist** Applications are invited for the appointment of Deputy Chief Pharmacist to the Group Pharmaceutical Department (Category IV Hospitals). The department, which is situated at the Kent and Canterbury Hospital, serves the eleven hospitals and clinics in the area. Salary £675 rising by annual increments to a maximum of £910 per annum. Applications with full details and the names of two referees to be addressed as soon as possible to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury. C 8184

### CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

**Locum Dispensing Assistant** required for the following period:—  
September 8 to 27.

Salary up to £9 11s. 6d. per week, plus London Weighting according to age and qualifications. Applications to the Chief Pharmacist, St. Leonard's Hospital, Nuttall Street, London, N.1. C 415

### CROYDON GROUP HOSPITAL MANAGEMENT COMMITTEE, MAYDAY HOSPITAL (595 Beds)

**Senior Pharmacist** Immediate vacancy. Modern department. Opportunity to secure wide experience in Hospital Pharmacy. Salary scale £650 x £30 (6)—£830 per annum plus London Weighting. Higher qualification allowance payable where applicable. Written application giving age, qualifications and details of previous experience to be sent to the undersigned within 10 days of the date of this advertisement.

GEORGE A. PAINES,  
Group Secretary.

General Hospital,  
London Road, Croydon C 8222

### FRIERN GROUP HOSPITAL MANAGEMENT COMMITTEE, NEW SOUTHGATE, N.11

**Senior Pharmacist** required. Salary £650 x £30 (6) to £850 per annum. Applications to the Group Secretary with names of two referees. C 8215

### FOREST GROUP H.M.C., LANGTHORNE ROAD, E.11

**Locum Assistant-in-Dispensing** (Apothecaries' Hall Certificate), required at Connaught Hospital, Walthamstow, E.17, 8.9.58 to 20.9.59, £9 11s. 6d. p.w. Apply, Secretary. C 8233

### FRIERN GROUP HOSPITAL MANAGEMENT COMMITTEE, NEW SOUTHGATE, N.11

**Locum Pharmacist** required for at least 6 weeks. Salary £16 16s. per week. Applications to the Group Secretary immediately. C 8216

### GENERAL HOSPITAL, MARGATE

**Locum Pharmacist** required. Applications, stating age, qualifications and experience, with names of two referees, to the Hospital Secretary. C 414

### HIGHBURY HOSPITAL, BULWELL, NOTTINGHAM

**Pharmacist** Applications are invited for the appointment of full-time Pharmacist. The post offers opportunity to obtain experience in general pharmaceutical work.

Salary £580 x £30 (6) x £25—£785. Applications, stating age, qualifications and names of two referees, to Hospital Secretary. C 8192

### HOSPITALS FOR DISEASES OF THE CHEST

**Senior Pharmacist or Pharmacist** Applications are invited for the above post at the LONDON CHEST HOSPITAL. Salary in accordance with the Whitley Council scales. Applications, stating age, qualifications and experience, accompanied by two testimonials, to the House Governor, London Chest Hospital, E.2. C 8227

### KENT AND CANTERBURY HOSPITAL, CANTERBURY

**Locum Pharmacist** required for service in the Group Pharmaceutical department for a period of approximately two months. Salary by arrangement and according to experience. Enquiries to Group Pharmacist (telephone Canterbury 2291). Applications to Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury. C 8183

### MAYDAY HOSPITAL (595 Beds) Category IV

**Locum Tenens Pharmacist** £16 16s. weekly. Duties at Mayday Hospital or Croydon Eye Unit as required. Modern Pharmacy. Good working conditions. Canteen on hospital premises. Vacancy on week-to-week basis for indefinite period. Applications in writing, giving details of age, qualifications and previous experience to the undersigned.

GEORGE A. PAINES,  
Group Secretary.

General Hospital,  
London Road, Croydon. C 8174

### NAPSBURY (MENTAL) HOSPITAL MANAGEMENT COMMITTEE

**Nr. ST. ALBANS, HERTS**  
**Locum Tenens Pharmacist** required at £16 16s. per week. Details to the Group Secretary with names of two referees in an envelope to be endorsed "Locum Pharmacist." C 8101

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**Appointments—Continued****KING EDWARD VII HOSPITAL,  
WINDSOR**

**Assistant-in-Dispensing**  
required urgently. Whitley salary. Apply giving particulars and names of referees to Secretary. C 8224

**LAMBETH HOSPITAL,  
BROOK DRIVE, S.E.11**

**Assistant-in-Dispensing**  
required. Whitley Council rates of pay and conditions. Applications in writing, giving names of two referees to the Secretary. C 390

**METROPOLITAN HOSPITAL,  
KINGSLAND ROAD,  
LONDON, E.8**

**Locum Pharmacist**  
required August 5—September 6, 1958. Apply to Hospital Secretary. Clissold 6862. C 392

**METROPOLITAN HOSPITAL,  
KINGSLAND ROAD,  
LONDON, E.8**

**Senior Pharmacist**  
for modern department. Permanent post vacant due to retirement. Salary £680—£870 p.a. plus appropriate higher qualification allowance. Apply with details of age, training and experience to the Hospital Secretary. C 398

**NORTH STAFFORDSHIRE  
ROYAL INFIRMARY**

**Deputy Chief Pharmacist**  
A vacancy exists for the above post. Salary within scale £675 to £910 p.a. Applications, with names of two referees to the Hospital Secretary, Royal Infirmary, Stoke-on-Trent, as soon as possible. C 8188

**NAPSURY (MENTAL)  
HOSPITAL MANAGEMENT  
COMMITTEE**

**Nr. ST. ALBANS, HERTS**  
**Senior Pharmacist**  
Applications are invited for the above post, £650 x £30 (6)—£830. New pharmacy completed 1957. Applications to the Group Secretary, with names of two referees, endorsed "Senior Pharmacist." C 8102

**NOTTINGHAM EYE HOSPITAL**

**Assistant-in-Dispensing**  
required. Duties to commence on July 20, 1958. Salary and conditions of service in accordance with the Whitley Council. Applications stating age, experience, qualifications, and the names of two referees to be sent to the Group Secretary, General Hospital, Nottingham. C 413

**NORTH WIRRAL HOSPITAL  
MANAGEMENT COMMITTEE**

**Pharmacist**  
Applications are invited for the appointment of Pharmacist, full-time, to assist the Chief Pharmacist at Mill Lane Hospitals, Wallasey, Cheshire. Salary and conditions of service in accordance with the Pharmaceutical Whitley Council Committee "C" Salary, £580 x £30 (6)—£760 x £25 (1)—£785. Previous professional experience will be taken into consideration when considering the point of entry into the basic grade. Applications, with full details and names and addresses of two referees, to the Group Secretary. C 8228

**NOTTINGHAM No. 1 HOSPITAL  
MANAGEMENT COMMITTEE,  
NOTTINGHAM EYE HOSPITAL**

**Chief Pharmacist (Category II)**  
Applications are invited for the appointment of Chief Pharmacist (non-resident) at the above Hospital. Salary and conditions of service in accordance with Whitley Council Regulations. Applications giving full particulars together with the names of three referees to be sent as soon as possible to the Group Secretary, General Hospital, Nottingham. C 408

**PINEWOOD HOSPITAL,  
NINE MILE RIDE,  
WOKINGHAM**

**Locum Chief Pharmacist**  
required for two weeks from September 1. Salary £16 16s. per week. Residential accommodation available, £135 p.a. Applications to Secretary. C 8167

**PINDERFIELDS GENERAL  
HOSPITAL, WAKEFIELD**

**Assistant-in-Dispensing**  
required. Apothecaries' Hall Certificate preferred. Whitley Council salary scale applies. Address written applications, giving full personal particulars and two names and addresses for reference, to W. BOWRING, Group Secretary, Pinderfields General Hospital, Wakefield. C 8230

**ROYAL EAST SUSSEX  
HOSPITAL, HASTINGS**

**Locum Dispenser**  
required from September 1 to 6. Apply with full particulars to Administrator. C 8223

**STAINES GROUP HOSPITAL,  
MANAGEMENT COMMITTEE,  
ASHFORD HOSPITAL,  
ASHFORD, MIDDLESEX**

**Pharmacist**  
required on salary scale £580 to £785 per annum, plus London Weighting Allowance. OR Locum Pharmacist, salary £16 16s. per week. Applications, stating age, qualifications and experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately. C 385

**ST. ALBANS CITY HOSPITAL,  
NORMANDY ROAD,  
ST. ALBANS, HERTS  
(384 Beds)**

**Senior Pharmacist (Category III)**  
A vacancy will occur in September at the above general Hospital within easy reach of Central London. Whitley Council salary and conditions. Applications stating age, qualifications and experience to the Chief Pharmacist. C 8229

**STAINES GROUP HOSPITAL  
MANAGEMENT COMMITTEE,  
ASHFORD HOSPITAL,  
ASHFORD, MIDDLESEX**

**Locum Pharmacist**  
required. Salary £16 16s. per week. Applications, stating age, qualifications and experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately. C 416

**ST. ALFEGE'S HOSPITAL,  
GREENWICH, S.E.10**

**Locum Pharmacist**  
required for indefinite period. Salary up to 16 guineas weekly. Apply Chief Pharmacist. (Tel.: Greenwich 2655.) C 8214

**ST. LEONARD'S HOSPITAL,  
NUTTALL STREET,  
LONDON, N.1**

**Locum Pharmacist**  
required immediately. Salary up to 16 gns. a week. Apply to Hospital Secretary. Telephone: Clerkenwell 2901. C 401

**ST. LEONARD'S HOSPITAL,  
NUTTALL STREET,  
LONDON, N.1**

**Senior Pharmacist**  
Permanent post in modern department. Salary £650 to £830, plus appropriate London Weighting and high qualification allowance. Apply with details of age, training and experience to Hospital Secretary. C 400

**ST. MARK'S HOSPITAL,  
CITY ROAD, LONDON, E.C.1**

**Locum Pharmacist**  
required for indefinite period commencing immediately. Salary £16 16s. per week. Write or telephone to Secretary (CLE. 8821). C 8200

**ST. LEONARD'S HOSPITAL,  
NUTTALL STREET, N.1**

**Locum Pharmacist**  
required from 15th to 27th September. Salary 16 gns. per week. Applications to Chief Pharmacist. Tel.: Shoreditch 3311. C 410

**ST. PETER'S HOSPITAL,  
CHERTSEY, SURREY**

**Pharmacist and Assistant-in-Dispensing**  
required. Whitley Council conditions. Hospital in pleasant rural surroundings within easy reach London. Temporary accommodation available for single woman. Salaries: Pharmacist £580 to £785 according to experience. Assistant-in-Dispensing (age 22 or over) £375 to £490. Applications, stating age and experience, giving two referees to Administrative Officer. C 8146

**THE GENERAL HOSPITAL,  
OTLEY, YORKS**

**Senior Pharmacist**  
Applications are invited for the above post. Salary £650 to £830. Applications with names of two referees to Group Secretary, Ilkley and Otley Hospital Management Committee, at above address. C 8231

**THE ROYAL INFIRMARY  
OF EDINBURGH  
(Category V Teaching Hospital)**

**Deputy Chief Pharmacist**  
Applications are invited for this post. Salary £725—£990 per annum plus higher qualification allowance of £25 per annum where appropriate. Conditions of service in accordance with the Whitley Council Agreements. Applications, stating age, qualifications and previous experience, together with the names and addresses of two referees should be sent as soon as possible to Secretary and Treasurer, Royal Infirmary, Edinburgh. C 8212

**WEST WALES HOSPITAL  
MANAGEMENT COMMITTEE,  
GLANGWILI, CARMARTHEN**

**Pharmacist**  
Applications are invited for the above post in the Group Pharmacy situated at the West Wales General Hospital, Carmarthen. Salary scale: £580 x £36 (5) to £760 x £25 (1) to £785. Terms and conditions of service in accordance with the recommendations of the Pharmaceutical Whitley Council. Applications, giving particulars of age, qualifications and experience, together with names and addresses of three referees to M. A. Ball, Group Secretary, West Wales H.M.C., Glangwili, Carmarthen. C 8162

**WEST MIDDLESEX HOSPITAL,  
ISLEWORTH, MIDDLESEX**

**Pharmacist**  
for Main Pharmaceutical Department. Salary £580—£785 per annum, plus London Weighting. Whitley conditions and assimilation point in salary scale according to experience. Apply giving age, qualifications and experience, with names of referees to the Chief Pharmacist. C 405

**WINWICK AND NEWCHURCH  
HOSPITAL MANAGEMENT  
COMMITTEE**

Applications are invited for the post of  
**Senior Pharmacist**  
in the Group Pharmaceutical Department at Winwick Hospital (2,305 beds). Salary £650 x £30 (6)—£830. Also

**Locum Pharmacist**  
required for any four consecutive weeks July/August. Salary 16 guineas per week. Applications giving date of birth, full particulars regarding qualifications, and experience together with names and addresses of two referees should be forwarded to the Secretary (Ref.: C & D/92), Winwick Hospital, Warrington. C 8185

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Applications are invited for two posts of LECTURER in Pharmaceutical Subjects. Candidates should be graduates in Pharmacy or possess a qualification of the Pharmaceutical Society and a Science Degree. The successful candidates will be required to teach up to the standard required for the Bachelor of Pharmacy Degree of the University of London and to specialise in Pharmaceutics or Pharmaceutical Chemistry. Research facilities are available. Salary:—Burnham (Technical) Scale for Lecturers: Men, £1,200 x £30 to £1,350 per annum; Women, £960 x £24 to £1,080 per annum, plus equal pay increments. Duties to commence on or as soon as possible after September 1, 1958. Further particulars from the Registrar, The Technical College, Sunderland, co. Durham. Applications should reach the undersigned within fourteen days. Canvassing will disqualify. W. THOMPSON, Director of Education.

Education Offices,  
15 John Street,  
Sunderland,  
Co. Durham.

C 8225

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**FINCHLEY.** Capable unqualified dispensing assistant required. Full-time or part-time. Must be accustomed to private dispensing. Apothecary Hall preferred but not essential. Able to give occasional help on counter. Good salary to applicant with necessary experience. Apply in writing giving details of previous experience to, V. Maxwell, 4 Friary Road, N.12. C 1629

**FRANCIS** the chemists, Wrexham, require pharmacist, lady or gentleman, for responsible post. Large supporting staff. Excellent salary offered to keen energetic type. Congenial working conditions and good prospects. C 1604

**NORTH LONDON.** Manager required for busy pharmacy with heavy dispensing connection. Good basic salary plus bonus based on net profit. Living accommodation suitable for a family man. If desired, an investment by way of shares can be taken up, either now or later. Excellent opportunity for keen and energetic pharmacist as the business, although already substantial from the standpoint of turnover, offers plenty of scope for further expansion. All replies treated in strict confidence. Box C 8081.

**OLDHAM CO-OPERATIVE CHEMISTS, LTD.,** invite applications for position of pharmacist branch manager. Accommodation, modern house made available, if necessary. Superannuation. Salary and other emoluments, £930. Applications, stating age, experience, etc., to Oldham Co-operative Chemists, Ltd., King Street, Oldham. C 388

**PHARMACIST** required to act as Superintendent. Very light work, little N.H.S. High-class business. Knowledge of counter preferred. Would suit elderly gentleman or young lady or gentleman desiring to gain really good experience. Near West End of London. No accommodation. Box C 1636.

**SUSSEX COAST.** Experienced lady dispensing assistant required for pleasant seaside business. Small flat available if necessary. Apply with usual particulars to Frank Broad, 53 Marine Drive, Rottingdean, Brighton. C 1633

**UNQUALIFIED ASSISTANT** required for all-round duties, lady or gentleman. Knowledge of agency cosmetics preferred. Every consideration given to person prepared to give loyal service to proprietor. Happy shop, high-class and interesting business near West End. Someone looking for a permanency required. No dispensing. Box C 1637.

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**BEECHAM OVERSEAS LIMITED** have vacancies for Technical Assistants age 25/35. The successful applicants must be qualified chemists, pharmacists, or qualified chemical engineers and must have held a responsible position on production in a factory within the pharmaceutical or chemical industry and be experienced in modern production methods. The positions entail co-ordinating the technical activities of Overseas factories when necessary. Profits participation and non-contributory pension schemes in operation. Apply in writing only, giving full details of age, qualifications and experience, to Personnel Controller, Beecham Group Limited, Beecham House, Great West Road, Brentford, Middlesex. C 8196

**ALLIED LABORATORIES LIMITED  
MEDICAL REPRESENTATIVES**

Owing to the continued growth of our Company, applications are invited for vacancies which exist on the following territories:—

**South Lancashire & Cheshire,  
Glasgow (North of River)**

These territories offer interesting and rewarding work for men with initiative and a keen sense of responsibility. Previous experience in representative work is desirable, but consideration will be given to men with a sound pharmaceutical and medical background. Candidates should hold a current driving licence and reside on the territory for which they apply. Remuneration is by salary, bonus and expenses. An attractive life assurance and pension scheme is also provided. A Company car is supplied and maintained. Applications, treated in strictest confidence should give full details of career to date and be addressed to the Sales Manager, Allied Laboratories, Ltd., 140 Park Lane, London, W.1. C 411

**ASSISTANT** required for advertising manager. Technical qualifications necessary. Background knowledge of advertising an advantage. Write giving details of career to date, salary, etc., to Personnel Officer, Bayer Products, Ltd., Neville House, Eden Street, Kingston-on-Thames. C 8221

**AN INTERNATIONAL PERFUMERY  
AND COSMETIC HOUSE**

requires for its sales department a young man (20-23) of good education, unmarried and having completed national service.

The successful applicant will be based on the London (West End) head office, but must be mobile with a view to acting as relief representative. Good starting salary. Written applications only, please, addressed to the Sales Controller, Yardley & Co., Ltd., 33 Old Bond Street, W.1. C 8236

**MEDICAL REPRESENTATIVE**

required by Genatosan, Limited, a member of the Fison Group, for special assignments and occasional relief work but based on a territory consisting substantially of Hampshire, Berkshire and Oxfordshire. Applications are welcomed from pharmacists, medical auxiliaries and others who believe they have a suitable technical background coupled with a keen desire to succeed in this field. A comprehensive training programme is arranged. This post is well remunerated and superannuated, a car is provided and all general expenses are adequately covered.

Applications stating age, education and career to date, should be addressed to the Personnel Officer, Genatosan Limited, Derby Road, Loughborough, Leics. Please quote reference No. 40. C 8198

**CUXSON, GERRARD & CO., LTD.,  
OLDBURY**

require the services of two representatives to cover their interests to chemists in the following areas:

1. Cornwall, Devon, Dorset, Wilts, Somerset, Hampshire and Isle of Wight.
2. Yorkshire (East and West Riding), Lincolnshire, Nottinghamshire, Leicestershire, Northamptonshire, Rutlandshire.

Superannuation. Car provided. Applicants should reside on the territory. C 8211

**ORDER CLERKS.** The British Drug Houses, Ltd., require clerks with a sound knowledge of ethical and proprietary medicines for telephone order and pricing work. Applicants should have experience in the wholesale distribution trade. Five-day week. Canteen. Apply in writing stating age, experience and salary required to the Staff Manager, The British Drug Houses, Ltd., Graham Street, City Road, N.1. C 8205

**SOUTHERN WAREHOUSE** of large retail pharmaceutical organisation requires the services of a Pharmaceutical Chemist, man or woman, preferably with experience of multiple shop organisation, but not essential. Write, Mr. R. W. Gillham, M.P.S., Timothy Whites & Taylors, Allen House, 70 Vauxhall Bridge Road, London, S.W.1. C 8201

**THE BRITISH DRUG HOUSES  
LIMITED**

**REPRESENTATIVE** required for Glasgow and W. Scotland to call on Chemists, Wholesalers and Hospitals. Pharmaceutical qualification desirable but not essential. Write fully, Ref. DGM., B.D.H., Ltd., Shaw Road, Speke, Liverpool, 19. C 8234

**WHOLESALE (OVERSEAS)****INDIA****MERCK SHARP & DOHME  
LIMITED**

require a man aged 30 to 35 with pharmaceutical, sales and administrative experience, to fill a position as No. 2 to the Manager of their Indian Company in Bombay. Salary adequate and in accordance with experience and ability. Send in the first instance full personal particulars with photograph to

The Personnel Manager,  
Merck Sharp & Dohme Limited,  
Hoddesdon, Herts

C 8217

**PFIZER LTD****Medical Representatives**

As a result of our promoting several Medical Representatives lately we now have vacancies in the following areas:—

1. London and Southern Counties
2. Staffordshire/Derbyshire
3. The Wirral
4. Central Wales
5. Yorkshire
6. N.E. England
7. Scotland

and invite applications from pharmacists or persons with a pharmaceutical or medical background to fill these vacancies.

All the appointments offer excellent career prospects, and in addition to a generous starting salary, a bonus scheme is in operation. A car is provided, expenses paid and a non-contributory Pension and Life Assurance Scheme operated. *Fully detailed applications, indicating the area(s) interested in, should be made to Personnel Officer, Pfizer Ltd., 137/139 Sandgate Road, Folkestone, quoting reference E 6683.*

C 8123

**LIGATURES AND SUTURES  
THE ARMOUR LABORATORIES**

wish to appoint a representative for the promotion of their complete range of LIGATURES AND SUTURES to hospitals and the trade throughout Scotland. Applicants, aged under 40, preferably resident in Glasgow or Edinburgh, should have experience in the handling of such materials though previous representation is not essential as adequate sales training will be given. An excellent career is offered, adequately remunerated by salary and expenses, and a company car is provided. Contributory Group life insurance and Superannuation schemes operative. Full details in first letter to Sales Manager, Hampden Park, Eastbourne, Sussex.

C 8218

**RIKER**

A vacancy for a pharmacist or chemist has arisen in the Analytical Control and Product Development Department of Riker Laboratories. The work will be varied and interesting because of the company's increasing research and development programme.

Applicants need to have some experience of this kind of work and the attractive remuneration (by salary and bonus) will naturally recognise this. The post offers the opportunity of joining a growing pharmaceutical organisation and will appeal to a man of initiative who wishes to widen his experience and to progress further in this field.

The Riker factory is situated in a pleasant market town within easy reach of Nottingham and Leicester. Apply in writing in the first instance to:—

THE WORKS MANAGER,  
RIKER LABORATORIES LIMITED, LOUGHBOROUGH  
C 8194

**Situations Vacant—Continued****U.S.A.**

An American Manufacturer has a position open for a man with experience in the production of Plaster-of-Paris bandages and similar lines, to take charge of production in American factory. Residence in United States will be necessary.

Applications for this appointment, which will be treated in the strictest confidence, should give details of age and experience, and an outline of career to date. Box C 8235.

AGENTS with already established connection with retail chemists and toilet goods departments of department stores, required by sole importers of remarkable new corn and callous plasters outfit. High rates of commission. Ideal as extra line. Box C 1640.

**WELL-KNOWN** manufacturers of nationally distributed infra-red-ray lamps requires good selling agents on commission basis in Scotland, Wales and S.W. England. Age immaterial but applicants must be well introduced to the trade. Write Box C 8237.

**SITUATIONS WANTED  
RETAIL HOME**

**PHARMACIST**, Eire, single, experienced all branches of pharmacy, seeks progressive post in England. Excellent references. Presently employed. Box C 1634.

**PHARMACIST**, L.P.S.I., male, single, extensive managerial experience in wholesale and retail pharmacy, seeks position of advancement in England. Box C 1635.

**WHOLESALE**

**F.P.S.**, 34, conscientious, good administrative and practical experience, desires position with manufacturing chemists, preferably North London-Hertfordshire area. Used to responsibility, organising and planning production and staff control. Might suit medium-size company with expansion programme. Please write Box C 1638.

**MANAGER OR AGENT**

Gentleman seeks post, British and Canadian qualifications, as Manager or Agent for Pharmaceutical House desiring to establish firm export market in Canada.

Great experience in wholesale and retail distribution. At present in charge of narcotics and pharmaceuticals with one of Canada's largest distributors. Would also operate in Great Britain or U.S.A. Box C 1628.

**PHARMACEUTICAL CHEMIST**, 39, Scot, ten years Southern Africa as medical representative, manager and director of leading pharmaceutical companies, seeks appointment in Britain where expert knowledge of ethical sales promotion, export and marketing procedures, and sales administration can be fully utilised. Available for interview U.K. early September. Write Box C 1630.

**BUSINESS OPPORTUNITIES**

**EXPERIENCED** cosmetics manufacturer required to supply and pack a solid brilliantine suitable for tropical climates. Details in confidence to Box C 1642.

**WANTED**

**BUYER** specialises in disposing of job lots of any lines appertaining to pharmacy. Any quantity considered. Prompt cash settlement. Willing to discuss adaptation of any line which is not quite suitable in its present state. Please send samples and full details to: N. Morris, 218 Walworth Road, S.E.17. Tel. No.: ROD. 7261. C 395

**WE WILL PURCHASE** for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

Largest cash buyers of photographic equipment of every description, out-dated film and paper, etc.

**SPEARS**  
(Dept. N.), 14 Watling Street, Shudehill, Manchester

Phone: Blackfriars 1916  
Bankers: Midland Bank, Ltd. C 374

**AGENTS WANTED**

**AGENTS** calling on the Retail Chemists wanted to carry extra line of first-class Toilet and Cosmetic Bags, at highly competitive prices. Box C 1632.

**AGENTS WANTED** to market hair specialists' preparations, tried and proved five years with excellent results on Mayfair clients, nation-wide possibilities. Good commission to right salesmen. Apply Nu-Hairlife Co., Ltd., 62 Oxford Street, London, W.1. C 1641

## PATENTS

NOTICE IS HEREBY GIVEN that Vanadium Corporation of America seeks leave to amend the Complete Specification of Letters Patent No. 680,413 for an invention entitled "Improvements in or relating to the precipitation of hydrous vanadium pentoxide."

Particulars of the proposed amendments were set forth in the Official Journal (Patents), No. 3,621, dated 9th July, 1958.

Any person may give Notice of Opposition to the amendment by leaving Patents Form No. 36 at the Patent Office, 25 Southampton Buildings, London, W.C.2, on or before 9th of August, 1958.

GORDON GRANT,  
Comptroller-General.  
C 8213

10 TONS SULPHUR SUBLIME, B.P. Standard, 30/- per cwt. to clear, John Wood & Co., 27 Trinity Road, Birchfields, Birmingham, 6, Northern 1140, C 8232

## MISCELLANEOUS

FASHION JEWELLERY for Seaside and Holiday Wear. We offer our wonderful new range of 4,000 lines to choose from. JODEZ (Manchester), Ltd., 8/10 Shudehill, Manchester, 4. C 8139

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LONDON, E.C.3  
C 269

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## TENDER

NATIONAL HEALTH SERVICE,  
SCOTLAND  
SUPPLY OF MEDICINES, DRUGS,  
SURGICAL DRESSINGS, ETC.  
THE DEPARTMENT OF HEALTH  
FOR SCOTLAND invite tenders for  
the supply of MEDICAL STORES in  
the categories detailed below to HOSPITALS in SCOTLAND, under the  
National Health Service and Prison  
Service for a period of one year from  
January 1, 1959.

| Categories of Stores           | Due Date for Return of Tenders |
|--------------------------------|--------------------------------|
| Antiseptic Fluids              | August 27, 1958                |
| Dextrose                       | August 27, 1958                |
| Liquid and Soft Paraffin       | August 27, 1958                |
| Glycerin                       | August 27, 1958                |
| Malt Extract                   | August 27, 1958                |
| Methylated Spirit              | August 29, 1958                |
| Soft Soap                      | August 29, 1958                |
| Anæsthetics                    | August 29, 1958                |
| Vitamin Preparations           | August 29, 1958                |
| Injectors (Ampoules and Vials) | August 29, 1958                |

Medicinal Tablets and Pills (including Hormone and Sulphonamide Preparations) September 3, 1958  
Medicines and Drugs September 3, 1958  
Sanitary Towels September 3, 1958  
Surgical Dressings September 3, 1958  
Applications for tender-forms should be made in writing to the Secretary, Department of Health for Scotland, Room R/144, Government Buildings, Broomhouse Drive, SAUGHTON, Edinburgh, 11, and should bear the word "Contracts" in the lower left-hand corner. The category (or categories) of stores for which forms are required should be clearly stated. No undertaking can be given that the lowest (or any) tenders will be accepted. The Ministry of Health, as agents for the Department of Health for Scotland, will enter into contracts with the successful tenderers. C 8219

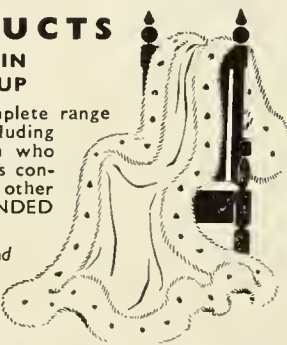
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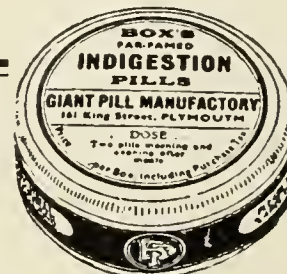
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